Economic Research Service United States Department of Agriculture July 1988

AGRICULTURAL OUTLOOK

July 1988/AO 143









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Contents of this report have been approved by the World Agricultural Outlook Board, and the summary was released June 17, 1988. Materials may be reprinted without permission. Agricultural Outlook is published monthly, except for an arvy/February combined issue. Price and quantity forecasts for crops are based on the June 9 World Agricultural Supply and Demand Estimates

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The next Issue of Agricultural Outlook (AO-144) is scheduled for mailing on August 5, 1988. If you do not receive AO-144 by August 19, call the managing editor at (202) 786-1494 (be sure to have your mailing label handy). The full text and tables of AO-144 will also be available electronically; additional information on this is available at (202) 447-5505

Brief... News of World Grain Area, Wheat Trade, USSR Policy Changes

Spring-planted crops are under stress from above-normal temperatures and below-average rainfall in many areas. Commodity markets are responding with upward pressure on crop prices. Use is expected to outstrip production for most crops again this year.

Prospects of higher feed costs and lower livestock prices are lowering cattle and hog producers' income outlook. Lack of rainfall this spring raised concerns about pasture and range conditions as cattle movements off spring pastures increased; conditions were the worst since 1934. If marketings of fed cattle rise and their prices drop enough to cause financial losses, feeder cattle prices will also be pushed down.

Increased hog slaughter could lower hog prices in late summer from the \$50 per cwt reached in May. Despite lower income prospects for hog and cattle producers, cash receipts for the livestock sector as a whole will about equal last year, thanks to strength in poultry receipts.

The forecast range for farmers' 1988 net cash income has been raised to reflect early June data, but it does not yet reflect potential impacts of the drought. Indicated net cash income is \$53-\$59 billion, about in line with 1987. Record or near-record livestock receipts and a \$4- to \$6-billion rise in crop receipts may be offset by lower direct Federal payments and



higher production expenses. Because of the drought, income returns for individual farmers may vary widely.

The world price of nonfat dry milk (f.o.b. European ports) approached the U.S. support price in May. The world price has about doubled from a year ago, and the U.S. support price was lowered. Export interest could quickly exhaust the already reduced nonfat surplus and U.S. dairy farmers could experience an unusual period of volatile markets.

World trade in agricultural commodities and the size of U.S. exports are being affected by changes that Soviet leaders are making in policies and institutions. Among these changes: limited food price increases; a more favorable policy toward foreign trade; relaxation of central control over trade, farm production, and production financing; and a shift of some agricultural investment from production itself to processing and distribution.

Nearly half the strong rise in wheat exports from the 1985/86 low can be attributed to implementation of the 1985 Food Security Act. Included under the

act are lower loan rates, resulting in more competitive export prices, and the Export Enhancement Program.

Sales of some types of new farm machinery increased markedly during July 1987-May 1988. However, the rise was probably not the beginning of a surge in demand so much as a response to manufacturers' sales incentives. Farm machinery sales appear to be returning to seasonal patterns and running above a year earlier.

For the first time in the history of the Farm Credit System, one of its banks has been closed. The Jackson Federal Land Bank (serving Mississippi, Alabama, and Louisiana) was placed in receivership in May. The Jackson FLB reported a \$44-million loss last year, and had been losing an average of nearly \$5 million a month during 1988. Close to 40 percent of its loans were delinquent.

Because of air quality concerns and increased petroleum imports, ethanol is again the focus of public attention.

Much of the attention is related to the added demand ethanol production would place on grain markets. Ethanol's competitiveness with petroleum depends, among other factors, on how it is used in blended fuels, the relative prices of grain and crude oil, the efficiency of new ethanol production processes, and continuation of Government subsidies.



Agricultural Economy

Spring planting is complete. About the same number of acres likely were planted to major field crops as last year. In many areas, farmers sowed fields early because spring rains were light. Spring wheat, corn, and soybean seeding was completed ahead of the usual pace.

Early spring planting means less risk of loss from an early frost next fall. Also, com plants may reach their reproductive stage before the hottest weather. However, a dry spring increases the potential for low yields when plants get off to a poor start, as they have in some areas this year.

Subsoil moisture is particularly short in the Northern Plains and the Southeast. Farmers in these areas depend on frequent summer showers for high yields. A prolonged dry spell likely will not be offset by subsoil moisture accumulations.

Another result of early planting is that farmers were able fully to seed acreage intended for corn. Soybeans usually are put in after corn because they are less sensitive to the number of frost-free growing days. Although the price relationship between corn and soybeans favors soybeans this year, weather and farm programs encouraged farmers to plant corn.

Dryness Creates "Weather Market"

Dry spots in the Eastern United States, the lack of moisture in the Northern Plains, the second year of poor winter snowpack in the West, and lack of optimism in the extended weather forecasts have generated a "weather market" for grains and oilseeds. In recent years such a weather situation would not have had so much impact. This year is different because exports are rising and carryover stocks are falling.

Last fall, wheat at a little under \$3 a bushel was somewhat higher than the year before. Since then, larger exports and the realization that stocks could drop below a billion bushels have given the market a further lift. Recently, wheat was selling for nearly \$4 per bushel. Corn rose from about \$1.75 per bushel last fall to over \$2.50 in recent weeks. Volatility has increased.

Soybean price spurts that followed news of dry weather outpaced price dips that followed news of rain. In mid-June, soybeans were about \$8.50 per bushel, about \$3 above last fall.

U.S. agricultural exports for 1987/88 are expected to top 145 million metric tons,

above last fall's forecasts and 16 million tons higher than the preceding season. The increase reflects reduced supplies of several crops in major importing countries, export promotion programs, and the lower exchange value of the dollar. Also, domestic use of grains and oil-seeds has been holding up, supported by large meat production and an expanding population.

Despite stronger exports, U.S. farmers remain concerned about agricultural trade. Progress in opening the Japanese market further to U.S. citrus and beef has been made, and Japan offers the potential for substantial export growth. The agreement with Canada will affect U.S. trade in some products. Wide-ranging trade negotiations under GATT could shape not only trade patterns but also farmers' production and financing decisions.

Carryover Stocks Dropping

Farmers are expecting grain and oilseed stocks to continue to drop. By the end of 1988/89, wheat stocks could be down to about 30 percent of annual use. At the end of 1985/86, stocks equaled almost a year's supply. Rice stocks may drop to only about 20 percent of use, compared with 64 percent two seasons ago.

Drought Conditions In Mid-June

Crop conditions in the United States have deteriorated in recent weeks as dry weather has persisted. Farmers in the Northern Plains, West Coast, and Southeast have been hardest hit. In these areas rain is needed soon to prevent severe crop losses. The Corn Belt has also experienced dry weather.

Pasture, range, and forage conditions in many areas have been deteriorating, and pasture conditions at the beginning of the month were the worst since 1934. There is some movement of cattle off ranges because of the lack of forage, but it has not been large yet. Crops in many areas are under stress from heat and dryness, particularly spring wheat in the Northern Plains.

Water levels in rivers used for transporting grain and other agricultural commodities are low and in some instances limiting barge traffic to smaller and lighter loads.

The decline in crop conditions is making agricultural markets more volatile because grain and oilseed stocks, which were burdensome just a couple of years ago, have declined and are in better balance with use. The result is that prices of some crops are more sensitive and fluctuate daily with weather reports.

While the 1988 drought is serious and has already had a devastating impact on individual farmers, crop yields in many areas could still be large if rains return to normal soon enough.

Farm prices are already reflecting what the market feels will be the impact of the drought. However, it likely will be late summer before an accurate assessment of farm production can be made.

Retail prices lag behind farm price increases. Retail price rises will be moderated by the facts that meat supplies are record large, and that many fruits and vegetables, as well as some major field crops, are irrigated.



For commodities and services, interest, taxes, and wages. Beginning in 1986 data are only evalable quarterly. For all farm products.

*Calendar quarters: Future quarters are forecasts for livestock, com, and cash receipts. *Retail weight: *Seasonsity adjusted annual rate.

*Imped—Feb; #=Mar,-May; #Impune-Aug; North Products.

*Forecast.

average

The decline in corn stocks is less spectacular, but significant. At the end of 1985/86, corn stocks equaled 62 percent of use. Stocks could be down to 40-45 percent by fall 1989.

Soybean stocks are declining sharply. They are seldom as high as most other crops because market prices are typically above the loan rate. Stocks this fall could drop to 13 percent of use, and by next fall only a month's supply may be on hand. Higher prices will ration use.

Cotton is an exception to the lowerstocks pattern. Stocks are likely to edge higher during the next year, to about half of a year's requirements. Even so, stocks are down from three seasons ago, when they were well over a year's needs.

Larger exports and weather problems are not the only developments making markets jittery. Demand for livestock feed is a major question. Feeders vividly remember the runup in crop prices in 1983, when bad weather and a reduction in planted acreage combined to reduce eom and soybean production sharply. Many livestock and poultry producers were caught with large inventories of animals as feed prices soared. Feeding returns suffered.

This year, meat production will be record large, with reduced supplies of beef more than offset by stepped up output of pork, broilers, and turkeys. Meat output will probably grow more slowly in the second half than in the first.

Recent developments in the general economy have added to instability in the agricultural sector, even though 1988 economic growth is stronger than anticipated. The stock market crash last fall might have had a greater impact on commodity markets than it has. Even so, the sharp decline in the stock market added to market uncertainties in farm product and input markets, especially in the winter.

As economic growth continues, demand for agricultural products, especially meats, is being bolstered by rising consumer incomes and higher employment. Recent growth in manufacturing is adding to total employment, helping to boost the number of higher paying jobs.

While farmers making operating decisions face much uncertainty, prices of many farm commodities are higher and the farm situation is somewhat brighter. The rise in farm incomes over the past couple of years and prospects that incomes may hold up again in 1988 have helped farmers get their finances in order.

The increase in farmers' cash flow is reflected in a pickup in farm equipment sales, following a long slide. Land values are turning around in most areas and most farm banks seem to be in better shape than their urban or energy-dependent counterparts. [Donald Seaborg (202) 786-1880]

LIVESTOCK OVERVIEW

Total livestock receipts are expected to remain near last year's record of \$75 billion, with gains from poultry products about offsetting decreases for dairy, hogs, and cattle.

Prices of red meat and poultry moved higher recently. Omaha choice steer prices rose from \$63 per cwt in January to \$75 in May, up 19 percent. Pork loin prices climbed because of tight supplies and strong demand; they increased nearly 31 percent (wholesale) between March and May.

Wholesale broiler prices rose 16 percent and turkey prices 5 percent between April and May. The broiler gains reflected general strength in meat prices and also heavy demand for boneless breast by the fast food industry, spurred by a major chain's introduction of a new chicken product.

Forage Deterioration Pressuring Feeder Cattle Prices

Lack of rainfall this spring raised concerns about pasture and range conditions as cattle movements off spring pastures increased. Herd expansion plans may be altered by lack of forage in some areas. Pasture and range feed conditions on June 1 declined to 68, down from 84 a year earlier and below 1977-87's average of 82. Drought worsened in parts of the Northwest and in the North Central area. (See "Drought Conditions in Mid-June" on page 2 for more information.)

Forage supplies still should provide a good base for the smaller cattle inventory. However, some areas are selling cattle earlier than normal, and continued deterioration of forage conditions may reduce the demand for stocker-feeder cattle.

Further downward pressure on feeder cattle prices could come from losses on fed cattle marketings in June-August, if prices begin to decline. Breakeven prices of \$72.50-\$75.00 per cwt are projected for cattle finished during the summer quarter.

The average wholesale corn price (Central Illinois) rose from about \$1.90 per bushel in January-April to over \$2.50 in mid-June. As drought concerns rose, feeder cattle prices were pressured. Yearling feeder steers at Kansas City declined from near \$90 in early April to \$73.50 by mid-June. Thus, the dual impact of feedlot losses and higher grain prices is lowering producers' income.

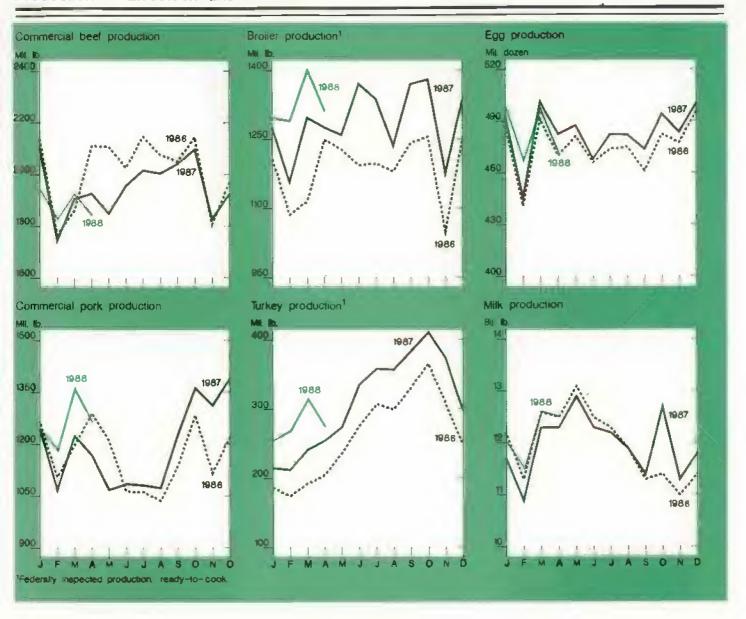
Reduced feeder cattle supplies still are expected to support yearling prices in the upper \$70 range. However, a drought in Mexico will increase supplies somewhat, because the Government of Mexico increased the quota for shipment to the United States by 150,000 head, to 1.23 million.

Hog Prices Up, But So Are Feed Costs

Prices of barrows and gilts at the 7 markets averaged \$48 per cwt in May, up nearly \$6 from April. Hog prices and wholesale pork prices were pulled higher by the sharp advance of wholesale pork loin prices during the first half of May.

Strength in loin prices at this time of year is usually associated with a decline in hog slaughter. However, during the pork loin price rally, weekly slaughter remained above 1.6 million head. Pre-Memorial Day buying was brisk, possibly encouraged by higher prices for competing beef and poultry cuts.

Other pork products initially contributed little to the gain in wholesale values. However, support from the other cuts emerged as slaughter declined in late May and early June.



Barrow and gilt prices reached \$50 per cwt in mid-May and are expected to remain firm through early July. Slaughter may hit a seasonal low earlier than normal. If so, the subsequent increase in kills will push prices down in August. However, futures prices in mid-June indicated that prices are expected to average in the low \$50's in August and the middle \$40's in October.

The dry spring is pressuring feed costs upward. Feed price increases from last August to mid-June added about \$9.50 per cwt to the cost of hog production.

The rise in the corn price added about \$5 per cwt to feed costs. Soybean meal during the same period rose from \$170 per ton to about \$270, adding about \$4.50 per cwt in production costs.

The combination of higher feed costs and an expected drop in hog prices in late summer could put producers in a loss situation in late summer or early fall. If so, more than a year will have passed from the peak of profitability to first losses. Since 1965, hog profit cycles have shown a period of 7 to 14 months from peak profits to losses.

In view of the high level of profitability over the past 2 years, and the trend

toward larger operations, producers are not expected to begin liquidation of their herds unless feed prices continue to escalate.

Broiler Prices Strong

The 12-city wholesale broiler price ranged above 56 cents per pound during May. At the same time, boncless breast prices in the Northeast rose to around \$2.60 per pound. The unexpected strength probably reflected promotional items for fast-food restaurants. Prices through the third quarter are expected to remain strong but below current levels, unless summer heat reduces supplies.

Broiler production during 1988 is forecast to increase 5 percent. First-quarter production was about 7 percent larger than a year earlier. Average slaughter weights during the quarter were less than 1 percent above the same period in 1986, continuing a trend towards higher weights. February, March, and April hatches were 5 percent above a year earlier. Production in the second quarter likely was 6 percent above a year earlier.

The broiler hatching-egg flock on May 1 was 2 percent above a year earlier. This flock is comprised predominantly of broiler-egg layers. Third-quarter production is expected to be 5 percent above a year ago.

The estimated broiter hatchery supply flock, based on pullets placed 7-14 months earlier, is a longer term indicator of broiler production than the hatchingeg flock size. The estimates which correspond with fourth-quarter slaughter were about even with the same period a year earlier. Fourth-quarter production likely will be only 2 percent above a year earlier. The estimate for November, an indicator of January 1989 slaughter, was 3 percent below 1987.

The 12-city wholesale composite price for broilers was 45 cents per pound in first-quarter 1988, compared with 50 cents a year earlier. Prices rose during the second quarter, likely averaging 53-54 cents. May's price was 56 cents, compared with 51 a year earlier.

Broiter prices will remain above a year earlier but will be tempered by large meat supplies during the third quarter. Prices may average 49 to 55 cents, because of higher summer demand. Fourthquarter prices will soften seasonally, averaging 44 to 50 cents. The average price for 1988 is expected to be between 47 and 53 cents.

Turkey Output May Grow More Slowly

The rate of increase in turkey production appears to be leveling off for the second half of 1988. Placements during March and April were 1 and 8 percent below a year earlier, respectively. Cumulative placements for September 1987 through April 1988 slaughter were 7 percent ahead of a year earlier. Eggs in incubators on May 1 were 5 percent below

a year earlier. Production for all of 1988 likely will be 10 percent above 1987.

First-quarter turkey production, at 860 million pounds, was about 25 percent ahead of a year before. Poult placements indicate second-quarter production was up about 13 percent. The rate of increase in production will slow dramatically in the third and fourth quarters, with expansion of 4 percent expected in each.

Turkey stocks, at 384 miltion pounds on May 1, were approximately 53 percent greater than a year earlier. As production begins to level or drop below 1987, the stock buildup is expected to slow.

Wholesate prices for Eastern region hen turkeys dropped from 52 cents a pound in January to 47 in February and March, down from the 58-cent average for the same quarter in 1987. Prices began to move up in May, averaging 49 cents, compared with 55 a year earlier. Prices likely averaged 50-51 cents during the second quarter.

Prices are expected to rise seasonally during the third and fourth quarters, although ample supplies of chicken and pork will mute the increase. Third-quarter prices likely will average 54 to 60 cents. Prices for all of 1988 are expected to average 51 to 57 cents, down from 58 in 1987.

U.S. turkey exports were 13 million pounds during first-quarter 1988, up 122 percent from the same period in 1987. Value was \$5.3 million, 69 percent above last year. The increase corresponded with relatively low U.S. turkey.prices, particularly for parts. The four leading importers, Taiwan, West Germany, Egypt, and Canada, took two-thirds of the turkey meat exported.

Cut-up turkey made up 88 percent of the exports, and average export unit values were down 17 percent from last year's first quarter, to 38 cents a pound. Exports to Canada averaged 70 cents, but the average unit value to Egypt was only 22 cents a pound. Turkey exports for all of 1988 are expected to be up about 30 percent from 1987's 33 million pounds.

Egg Receipts Below Costs

Egg production continues to be unprofitable, according to USDA estimates, even though egg prices began to move up during the last half of May. Estimated net losses were more than 13 cents per dozen during May. Producers sustained losses during 11 out of 13 months. Recent USDA purchases of dried egg mix and frozen eggs provided some price support during May.

Egg production for 1988 is expected to fall less than 1 percent; per capita consumption is expected to fall 2 percent, to 243 eggs. First-quarter output, at 1,462.6 million dozen, was 1.7 percent greater than a year earlier. Production in the second quarter likely was 1 percent below a year earlier. Production is forecast to decrease another 2 percent in the third quarter and 1 percent in the fourth.

The U.S. flock on May 1 was about 2 percent below a year earlier. This was a result of increased slaughter of light-type hens during November 1987-April 1988. Eggs per 100 layers on May 1 were the same as a year before.

Prices of wholesale grade A large eggs in New York are forecast to average 56-62 cents per dozen during 1988, below the 62 cents of 1987. Prices averaged 55 cents for the first quarter, compared with 65 cents last year.

Second-quarter prices probably averaged 52-54 cents. Prices are projected to rise during the second half of 1988 because of seasonally heavier demand for fourth-quarter holiday baking and lower production than a year earlier.

Steeper World Prices for Nonfat Dry Milk

The markets for nonfat dry milk and other milk protein products may soon have to cope with a force rarely felt—export demand. The international market price of nonfat dry milk (f.o.b. European ports) has risen sharply and by late May was approaching \$1,600 per metric ton for recently produced powder.

The current U.S. support price is \$1,604 per metric ton. If recent international prices hold this summer and autumn, the U.S. commercial market may become the least expensive source for some international customers.

International prices of nonfat dry milk have about doubled since a year ago. In

recent years, nonfat dry milk production has fallen; milk surpluses have been reduced in the EC by use of milk production quotas, and reduced in the United States by a combination of support-price reductions and the Dairy Termination Program.

Meanwhile, a fairly high level of world exports was maintained by drawing down government stocks of nonfat dry milk both here and in the EC. With these stocks now down to small working levels, prices have risen sharply. Reductions in the U.S. support price contributed to narrowing the price gap. Since early 1985, the U.S. support purchase price has been lowered by about \$400 per metric ton.

Thus far, the higher international prices for nonfat dry milk have had limited impact on domestic markets. Casein prices are tied to international prices of nonfat dry milk. Sharply higher casein prices, and some export interest, have pushed prices of dry buttermilk and whey protein concentrate very close to nonfat dry milk prices. Dry whey prices rose about 5 cents per pound between late March and late May.

In late May, substantial quantities of nonfat dry milk were sold to the U.S. Government at the support purchase price. Despite these sales and the fact that production was at a seasonal peak, premiums above the support price became increasingly common for commercial sales.

If international prices for nonfat dry milk stay at current levels or higher, the domestic markets for high-protein dairy products could be volatile during the rest of 1988. Export interest might quickly exhaust the domestic nonfat surplus and start prices rising.

The key to international price patterns will be EC policy actions. The EC feeds animals an amount of nonfat dry milk roughly equal to world exports (excluding intra-EC trade). EC officials have relaxed requirements for inclusion of nonfat dry milk in formulated feeds and reduced feeding subsidies.

If the EC shifts substantial amounts from feed to the export market, international prices of nonfat dry milk could drop sharply. In the long run, international nonfat dry milk prices are unlikely to equal U.S. domestic prices. Price strength in international markets tends to be brief. Stronger export markets remove some of the pressure to curb surpluses in countries that export under subsidy. [Lee Christensen (202) 786-1714]

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MELD CROP OVERVIEW

Based largely on pre-drought conditions, U.S. grain production in 1988/89 has been forecast at 282.6 million metric tons, up about 2 percent from a year earlier. This expected 5.6-million-ton expansion is spread among all grains, with wheat, rice, and feed grains each expected to increase. However, springplanted crops are under stress from above-normal temperatures and belowaverage rainfall in many areas. (See "Drought Conditions in Mid-June" on page 2 for more information.)

With use outstripping production by almost 35 million tons in 1987/88, grain beginning stocks in 1988/89 are forecast at 165 million tons, the lowest since 1985/86. Paced by an increase in corn feeding, domestic grain consumption is forecast to rise by around 2 million tons.

USDA announced the preliminary results of the 1988 farm program signup on May 19. Contracts will place almost 188 million acres of wheat, feed grains, upland and extra-long staple cotton, and rice in the 1988 acreage limitation programs.

This total represents over 83 percent of the total crop acreage base established for these commodities, compared with 86.5 percent for the 1987 programs. Under a voluntary paid land diversion program, 4.1 million acres will be diverted, the bulk of which is normally planted to corn.

U.S. Wheat Output Forecast at 58 Million Tons

World wheat production in 1988/89 is expected to rise 3 percent as several major producers, particularly the Soviet Union

and Europe, rebound from weather problems in 1987/88. Much of the recovery in production will be among importers.

However, at 536 million tons, world consumption will exceed production. Thus stocks, already at reduced levels, are expected to fall further to 133 million tons by yearend. Exports are forecast down 4 percent because of reduced import demand and prospects of tight supplies.

U.S. wheat production in 1988/89 is forecast, based on pre-drought conditions, at almost 58 million tons, up slightly from the 2 previous years. Even though exports are forecast to decline modestly for the year, total use (including exports) is projected to exceed production by more than 20 percent. This would reduce wheat ending inventories by 12 million tons. Total use in 1988/89 is forecast at 70.5 million tons, down about 4 percent from a year earlier.

The anticipated decline in wheat ending inventories and continuing dry weather are boosting market prices. In 1987/88, the average price received by farmers was up to \$2.55 per bushel from \$2.42 a year earlier, largely because of a one-third reduction in total stocks.

With inventories projected to fall again in 1988/89 by more than one-third, market prices are forecast to rise to \$2.90-\$3.30 per bushel. While prices are already climbing from their recent lows, average market prices through most of the 1980's were even higher, peaking at \$3.99 per bushel in 1980/81.

There is concern about the domestic wheat crop because of dryness in key spring wheat producing States and disease elsewhere. In general, winter weather was favorable for wheat, limiting winterkill and consequently reducing abandoned area. But, prolonged dryness in some areas may cut yields from peak levels, despite spotty rainfall during the last half of May.

Additionally, in some areas, the mild winter allowed damaging pests such as the Russian wheat aphid to survive and spread disease; in other areas wheat streak mosaic is common much earlier in the season than normal.

Because of low world stocks, the export share of U.S. competitors taken together is not forecast to change in 1988/89, despite improved production. Argentina and the EC are likely to increase production and exports, but their supplies and exports are not expected to rise enough to offset projected declines in Canadian and Australian exportable supplies. Coming into 1988/89, both Canada and Australia have low stocks. (For more details, see the Commodity Spotlight entitled "Competitors' Grain Crops To Change Little.")

Competitors' low supplies may keep world prices and demand for U.S. wheat strong. Although U.S. exports are expected to drop 2.8 million tons as world demand falls, the U.S. share of world exports (excluding intra-EC trade) is projected to remain over 40 percent.

Because of the expected growth in EC production, the Export Enhancement Program (EEP) initiatives are likely to continue to play a key role in keeping U.S. exports competitive, particularly in North Africa, the Soviet Union, and Eastern European markets.

Greater World Coarse Grain Output Likely

World coarse grain production in 1988/89, based on pre-drought conditions, is projected at 805 million tons, 2 percent above this season but 4 percent below the 1985/86 record. Most of the gain is expected in corn.

U.S. planting intentions in 1988/89 indicate feed grain area of over 104 million acres, slightly more than 2 percent below a year earlier. Of this, corn is up to 66.9 million acres, sorghum down to 10.7 million, and oats down to 16.3 million. Barley area may decline by almost 500,000 acres to below 10.3 million.

Foreign coarse grain production in 1988/89 is projected at a record 585 million tons, 2 percent above 1987/88. Several producers, including India, Thailand, and Eastern Europe, are expected to experience substantial recovery from 1987/88's weather-reduced production. Australia and the EC are expected to continue to increase production, while the Soviet Union and Canada are likely to reduce it. Little change is expected in Argentina.

At 825 million tons, world coarse grain consumption will exceed production. Slight domestic consumption gains are expected this year, and with a modest increase likely for U.S. exports, total coarse grain use is projected to exceed 241 million tons. Although this is only 3 million tons more than 1987/88, it is 13 million tons above 1986/87.

Despite an anticipated U.S. corn stock drawdown of almost 20 percent in 1988/89, yearend inventories likely will remain large, triple the level of 1983/84. The range of forecast com prices for 1988/89, at \$1.65-\$2.00 per bushel, is much broader than the estimated range of \$1.75-\$1.85 for 1987/88.

World import demand is expected to rise nearly 4 percent in 1988/89, led by gains in East Asia. This would be the first significant increase in world trade in 4 years.

Because of higher production, major competitors will have greater exportable supplies and are expected to increase exports. In 1988/89 Thailand likely will recapture some of the corn markets it lost in 1987/88 because of drought. Eastern Europe's corn exports should rebound while its imports drop.

Because of larger foreign supplies, the U.S. market share of coarse grain trade (excluding intra-EC trade) may slip from 1987/88's 63 percent down to 61, but U.S. exports likely will increase slightly from this season's 51.8 million tons, to 52.0 million. Com exports are forecast to rise to 44.5 million tons, compared with 43.2 million in 1987/88. However, U.S. sorghum and barley exports may drop slightly.

World Oilseed Production To Expand

World oilseed production in 1988/89 is projected at a record 208 million tons, up 1 percent from 1987/88, with all of the increase coming from foreign competitors. If foreign competitors respond to a continued high soybean-com price ratio, foreign production may rise.

Argentina is now harvesting a soybean crop approaching a record 10 million tons, compared with 1986/87's 7 million tons. Brazil's soybean production, while less than earlier forecast, is still larger than last year. Argentine and Brazilian soybean/soybean meal exports will rise 4

and 5 percent respectively, during 1987/88. A larger share of South American exports will spill into 1988/89, in direct competition with U.S. new-crop exports.

The U.S. soybean outturn for 1988/89 is likely to fall over 600,000 tons from the previous year, putting production at 51.2 million tons. Planting intentions are higher than the 1987/88 planted area. But, with yields assumed to decline to near trend (based on pre-drought conditions), production will be smaller.

Because of increased foreign competition and a reduced U.S. crop, U.S. exports of soybeans, meal, and oil are likely to fall. U.S. soybean exports are projected at 20.4 million tons, 6 percent less than 1987/88. Meal exports are forecast down 3 percent to 5.9 million tons, and oil exports are estimated at 800,000, down from 1 million in 1987/88.

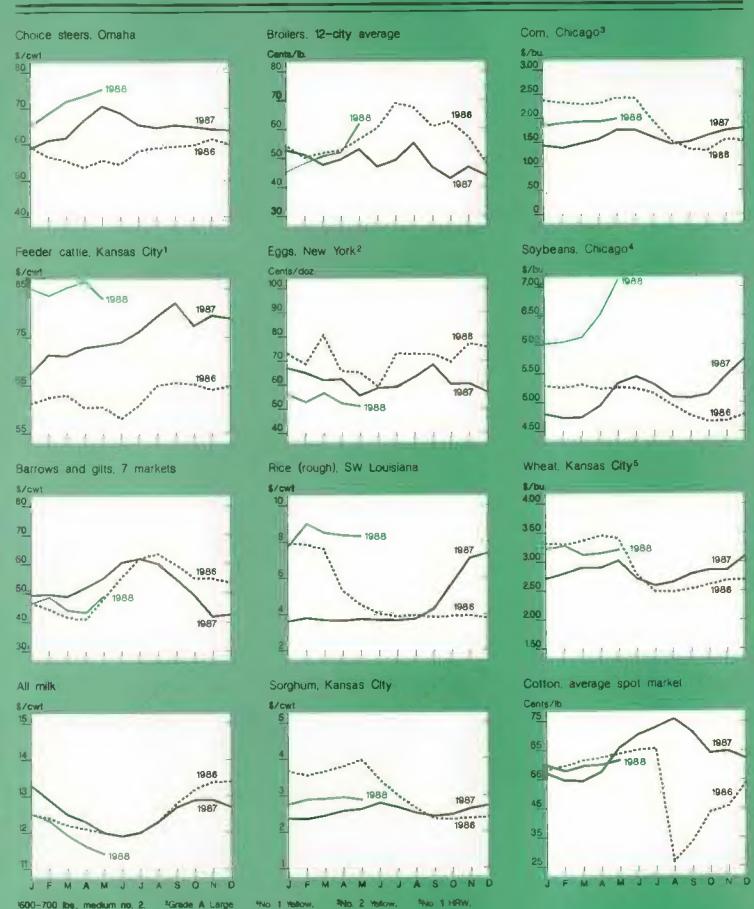
By 1988/89's end, U.S. soybe an stocks are projected to fall to 4.2 million tons, as consumption continues to outpace production. With total use forecast at 54.4 million tons, stocks are likely to drop 44 percent during the year. Throughout the 1980's, average soybean ending stocks have been over 9 million tons; they peaked in 1985/86 at 14.6 million.

With forecast inventories at their lowest since 1976/77, prices will be pressured upward. The range for average soybean prices in 1988/89 is expected to be \$5.75-\$7.75 per bushel, compared with \$5.90 in 1987/88.

Global Cotton Outturn Increases; U.S. Declines

In 1988/89, world cotton production is projected to reach 83.5 million bales, 5 percent more than in 1987/88. Area and yield will both increase. All of the growth will be in major U.S. competitors. India and the Soviet Union are likely to recover from this year's weather-reduced crop, while China plans continued growth.

U.S. production is forecast, based on predrought conditions, at 14 million bales, down 5 percent from 1987/88. Lower yield is likely to offset expanded acreage, but total U.S. use of 12.9 million bales will fall below production, as



Generic Certificate Update

As of March 31, about \$17.9 billion worth of generic certificates had been issued since the program began in April 1986. An estimated \$2.1 billion were mailed out in May and June as 1988 advance deficiency payments to producers of wheat, feed grains, upland cotton, and rice, and \$0.7 billion were paid to feed grain producers as advance diversion payments.

Total certificate redemptions as of May 31 approached \$17.1 billion, placing near-term availability at \$3.6 billion. Future issuances, including emergency compensation "Findley" payments for wheat, barley, and oats in July, and expected EEP and TEA program payments, could bring certificate availability for the rest of fiscal 1988 to between \$3.8 and \$4.3 billion.

Certificates were trading at or below par value in most locations during May.

Wheat Exchanges
Fall Off

Total certificate exchanges for April 15-May 17 were \$945 million. Of this, approximately 88 percent were for corn (\$835.8 million) and only 8 percent for wheat (\$71.8 million). Cumulative exchange shares since April 1986 are 72 percent for corn and 20 percent for wheat.

Much of the wheat decline can be attributed to the drop in wheat exchanged through the weekly auctions. From April 15 to May 25, only 17.2 million bushels were exchanged through the competitive bid process, bringing total exchanges through wheat auctions since November 6, 1987, to 383.6 million bushels. By comparison, over 180 million bushels were auctioned during December and January.

Exchanges for CCC-owned corn were heavy from April 15 through May 27; over \$517.3 million of certificates were exchanged for CCC-owned corn. This reflects almost 40 percent of total corn exchanges. More than 278 million bushels of CCC-owned corn were exchanged, including 254 million listed in CCC catalogs.

As of May 25, approximately 2.1 billion bushels of corn were outstanding under the regular loan program, including 1.5 billion of the 1987 corn crop. USDA as of June 9 projected September 1 outstanding CCC corn loans at 1.4 billion bushels. This implies loan redemptions of approximately 765 million bushels for the remainder of the 1987/88 corn marketing year.

Assuming an average posted county price (PCP) of well above \$2.00 for the remainder of 1987/88 would imply a corn certificate need of \$1.5 billion if all outstanding loans were redeemed with certificates. Exchanges for CCC-owned corn could add another \$0.3 billion, bringing total certificate exchanges for corn to \$1.8 billion.

Based on historical exchange patterns (77 percent of all exchanges have been made for corn), projected total certificate needs for the remainder of fiscal 1987/88 could approach \$2.3 billion.

However, if current weather conditions worsen and corn PCP's average over \$2.50 for the remainder of the corn marketing year, certificate needs for the balance of fiscal 1987/88 could approach \$2.8 billion.

With current certificate supply for fiscal 1987/88 estimated between \$3.8 and \$4.3 billion, certificate carryover could range between \$1.0 and \$2.0 billion.

both exports and mill consumption drop. U.S. mill use is projected to fall from this season's 7.75 million bales to 7.2 million.

Both U.S. and world stocks will climb because of reduced demand—a result of rising textile inventories and slowing disappearance. World consumption is not expected to continue the growth of the last few years; it is forecast to stabilize at 82.5 million bales, roughly equal to 1987/88.

Important cotton importers—the EC, Korea. Taiwan, and Hong Kong—may reduce use. But, consumption is expected to rise among major producers such as China, India, and the Soviet Union, whose use is primarily domestic. This will about offset declines in consumption among importers.

Nevertheless, declining importers' use will reduce trade. World cotton exports are forecast to fall from nearly 24 million bales in 1987/88 to 23 million in

1988/89, a 4-percent decline. As world exports fall, U.S. exports are projected to drop from 6.55 to 5.7 million bales.

The U.S. market share is likely to retreat from this season's near-normal 28 percent to only 25 percent because of greater 1988/89 foreign production and large carryover from the 1987/88 Southern Hemisphere crop now being marketed at lower prices. [James Cole (202) 786-1840 and Carolyn Whitton (202) 786-1826]

For further information, contact: Sara Schwartz, world food grains; Edward Allen, domestic wheat, Janet Livezey, domestic rice; Peter Riley, world feed grains; Larry Van Meir, domestic feed grains; Tom Bickerton, world oilseeds; Roger Hoskin, domestic oilseeds; Carolyn Whitton, world cotton; Bob Skinner, domestic cotton; Jim Schaub, domestic peanuts. World information (202) 786-1824; domestic, (202) 786-1840

HIGH-VALUE CROP OVERVIEW

Sugar Demand Stronger As Substitute Use Levels Off

Renewed strength in sugar demand indicates that high fructose corn syrup (HFCS) may have replaced about as much sugar as it can until improved forms or new uses for this substitute become available. In addition, growth in low-calorie sweeteners (saccharin and aspartame) has slowed.

The 10-year decline in U.S. sugar deliveries appears to have bottomed out in fiscal 1985/86, and deliveries may be starting to rise. Fiscal 1986/87 deliveries rose 3.2 percent to 8.046 million tons. Deliveries for the first half of fiscal 1987/88 rose 4.2 percent over the same months the year before. Fiscal 1987/88 deliveries probably will exceed 1986/87 by around 2.5 percent.

Certificate Needs for Fiscal 1989 Likely To Fall

Certificate needs for fiscal 1989 will depend on the size of the corn and wheat harvests and on export and domestic demands. A short crop could send harvest prices well above 1988 crop loan repayment levels, reducing opportunities for so-called "Quick PIK's," in which producers simultaneously place crops under loan and exchange them for certificates.

Cumulative Generic Certificate Exchanges as of May 31, 1988

| Commodity | CCC inventory 1/ | Producer Loa ns | Total |
|---|---------------------|---------------------------|---------------------|
| Food grains | | | |
| Wheat Volume (mil. bu.) Value (mil. \$) Rice | 729.0 1,856.9 | 563.3 1,434.7 | 1,292.3 3,291.6 |
| Volume (mil. cwt) Value (mil. \$) | 42.2 153.9 | 0.3 1.3 | 42.5 155.1 |
| Feed grains | | | |
| Corn Volume (mil. bu.) Value (mil. \$) | 860.1 1,491.1 | 6,301.8 10,924.2 | 7,161.9 12,415.3 |
| Grain sorghum Votume (mil. bu.) Value (mil. \$) | 114.5 201.2 | 430.8 757.5 | 545.3 958.7 |
| Volume (mil. bu.) Value (mil. \$) | 76.6 108.9 | 118.0 167.9 | 194.5 276.8 |
| Cotton Volume (mil. bales) | .89 | 5.98 | 6.87 |
| Rye, pats, soybeans Value (mil. \$) | 14.5 | 31.5 | 46.1 |
| Total value (mil. \$) 2/ | 3,826.5 | 13,317.1 | 17,143.6 |

1/ CCC loans as of May 27, 1988. 2/ Does not include values for cotton exchanges.

Source: Agricultural Stabilization and Conservation Service, USDA.

USDA projections for the 1988/89 wheat marketing year indicate that use will exceed production plus imports by 435 million bushels. As much as 150 million bushels of CCC and Farmer-Owned Reserve stocks could be freed up through certificate exchanges to meet this need.

Estimates for the 1988/89 corn marketing year indicate an imbalance of 723 million bushets that will have to come out of beginning stocks. At a season average PCP of \$1.80 a bushel for corn and \$3.00 a bushel for wheat, certificate needs could range between \$1.6 and \$1.8 billion.

However, if another bumper corn crop pushed season average prices down to \$1.65 to \$1.75 a bushel, corn producers in the first two quarters of 1988/89 likely would have "PIK and Roll" opportunities (exchanging certificates for crops placed as loan collateral).

Based on 1987/88 exchanges, this would imply an additional certificate need of \$2.5 to \$3.0 billion. This could bring total certificate use for fiscal 1989 to \$4.1-\$4.8 billion, implying possible need for an additional \$2.1 to \$3.3 billion in issuances. [Joe Glauber (202) 786-1840]

Per capita use of all sweeteners stood at 152.4 pounds of sugar equivalent in calendar 1987, up from 124.2 in 1975. From 89.2 pounds in 1975, refined sugar use per person fell 30 percent to 60.2 pounds in 1986. Sugar use rose to 62.2 pounds in 1987 and is forecast at 62.6 pounds in 1988.

HFCS accounts for more than 95 percent of all caloric sweeteners used in beverages, where its liquid form does not affect the product's quality. Sugar continues to be the major sweetener in uses where substitutes fail to achieve desired product characteristics. Bakery goods, for example, need sugar to maintain desirable color and texture, and jams and jellies need sugar to jell properly.

After 12 years of rapid growth, HFCS consumption per eapita appears to be leveling off. From only 5.0 pounds in 1975, growth in per capita consumption averaged about 4.0 pounds per year, reaching 45 pounds in 1985. During

1986 and 1987, though, HFCS use increased by only 1 pound per person per year.

Slower growth indicates the HFCS market is maturing; additional gains will rely on population and income expansion rather than on substitution for other products. Additional growth spurts are unlikely without emergence of major new uses or development of a cheaper process for producing crystalline fructose or dry HFCS.

Low-calorie sweetener consumption received a boost when aspartame was introduced in the U.S. market in 1981. After rising rapidly through 1985, aspartame and overall low-calorie sweetener consumption grew more slowly. From 6.1 pounds of sugar sweetener equivalent in 1975, consumption rose an average of 1.2 pounds per year to 1985. Over the last 2 years, though, it has climbed only about 0.67 pound annually. In 1987, it reached 20 pounds per capita.

Low-calorie sweetener use per capita will continue to grow at a slower pace in 1988. Most near-term growth will be tied to the uptrend in diet soft drink consumption, which is rising more rapidly than use of regular soft drinks. Aspartame has replaced saccharin in many products and accounts for about 70 percent of all low-calorie sweetener consumption.

Longer term growth depends on approval of new uses for the present low-calorie sweeteners, approval of new low-calorie sweeteners, or a reduction of low-calorie sweetener prices. The U.S. Food and Drug Administration approved aspartame use in six new product areas in early June.

Keep the Fruit Bowls Full

Abundant supplies of peaches, plums, apricots, nectarines, and sweet cherries will make fresh fruit a good buy this summer.

California's estimated sweet cherry production for 1988 fell below year-earlier output, but it still is four times the size of the unusually small 1986 crop. Prospects for good crops in Washington and Oregon should bring this season's output to 151,000 tons, 14 percent less than last season but 32 percent greater than 1986.

USDA forecasts total peach output up 8 percent from 1987. The peach crop looks normal or better in most of the major production areas. The exception is in Michigan, where severe spring weather damaged peaches, but even there growers anticipate large fruit.

California plum production is forecast at 260,000 tons, up 6 percent from last year. Plum acreage has been rising over the past several seasons, and growers anticipate a good yield this year. Despite likely strong export demand, more production and larger domestic shipments probably will lower prices.

California nectarinc production estimates stand slightly above 1987, and 13 percent above 1986. Crop quality appears excellent.

Apricot production is forecast 4 percent below last year, but more than double 1986's small crop. The crop appears in good condition.

Estimates of Bartlett pear production are 10 percent below the 1987 record output, but 11 percent higher than the harvests for 1985 and 1986. Despite the smaller crop this year, supplies will be adequate.

Estimates of California's clingstone peach production indicate a 4-percent larger crop this year. Strong domestic demand for canned peaches has drawn stocks about one-third lower than last year's low. Low stocks and strong demand this year should mean higher grower prices for clingstone peaches.

Smaller Potato and Dry Bean Crops May Strengthen Prices

Prospects for sharply lower dry bean production and somewhat lower potato output in 1988 are providing strength to

otherwise low prices. Despite the large dry bean harvest in 1987 and fewer-thanexpected exports, particularly of navy beans, prices strengthened throughout the winter and spring.

The U.S. price for all bean types averaged \$13.10 per cwt in December, down from \$22.00 the year before. However, during May the average price had risen to \$18.20 per cwt, compared with \$19.00 a year earlier.

Typically, dry bean prices in the latter half of the marketing season reflect expectations about the size of the following year's crop. In marketing years prior to an expected large crop, such as 1985/86, prices usually move downward or remain relatively flat as the season progresses. In years prior to an expected small crop, prices move upward, as in 1982/83, when prices advanced from \$12.00 in January to \$15.60 in June.

Prices for the 1987/88 marketing year seem to be following the pattern associated with expectations of a small crop. Dry bean farmers' March planting intentions indicated they planned to cut dry bean acreage 23 percent from 1987. Dry conditions in Michigan at planting time may also be causing concern among buyers about the size of the 1988 crop.

Potato prices have been inching upward since April despite the largest May 1 stocks of fall potatoes on record. One factor boosting prices may be expectations for a smaller crop in 1988 than in 1987. Usually, planted acres and production fall following a season with generally low prices, such as 1987. [Glenn Zepp (202) 786-1883]

For further information, contact: Ben Huang, fruit; Shannon Hamm, vegetables; Peter Buzzanell, sweeteners; Vemer Grise, tobacco. All are at (202) 786-1886.



Commodity Spotlights



Ornamental Horticulture Industry Is Blooming

Floriculture and ornamental horticulture, from farm and greenhouse production to retail sales at nurseries and chain stores, are among the fastest growing sectors in agriculture. Domestic and world production, consumption, and trade in flowers and plants have expanded faster over the past decade than the general economy, and faster than most other agricultural subsectors.

Industry Produces Onc-Tenth Of All Crop Cash Receipts

Grower cash receipts from marketings of U.S. greenhouse and nursery crops (excluding food crops grown under cover) reached \$5.80 billion in 1986, a 9.6-percent annual average growth rate since 1982. Receipts grew from 5.0 percent of all crop receipts in 1981 to 9.1 percent in 1986. For 1987, receipts are estimated to have grown to about \$7.0 billion, or 11 percent of all crop cash receipts.

Some reasons for this 19-percent jump from 1986 include greater expenditures for sod and other landscape ornamentals used in the housing industry; citrus nursery stock sales in Florida to replace freeze-killed citrus trees; and higher personal consumption expenditures for cut

flowers, bedding plants, and other ornamental crops such as houseplants and outdoor foliage, trees, and shrubs.

A recent USDA survey of 28 domestic floral and foliage crops in 28 States showed that they accounted for grower sales of \$2.15 billion in 1987, a 13-percent increase over the previous year. This annual survey of wholesale sales, conducted by the National Agricultural Statistics Service, shows that in 1987:

- fresh cut flowers rose 13 percent in value to \$407 million;
- potted flowering plants, valued at \$460 million, increased 18 percent;
- cut cultivated florist greens, at \$88.3 million, rose 15 percent;
- bedding plants (including vegetable, flowering, and foliage types) jumped
 22 percent to \$682 million; but
- foliage plants (including hanging baskets and potted plants) decreased
 2 percent from 1986, to \$513 million

Wholesale Grower Value Was \$300 Per Capita Last Year

Domestic sales of cut flowers through all sales outlets were \$26 per person in 1987, while all other floral and plant crop sales totaled \$274 per person, according to ERS analysis. This results in a total wholesale grower value of \$300 per person last year for all domestic market sales of U.S.-produced and imported ornamentals and nursery crops.

According to industry data sources, retail sales of fresh cut flowers and potted house plants grew from \$2.7 billion in 1975 to \$8.3 billion in 1986. Sales of floral and foliage products, excluding greenhouse and nursery sales, grew from \$10-\$11 per person in 1980 to \$20-\$21 in 1986. However, sales per person in the United States and some other developed nations are still only half, or perhaps as low as one-third, of those in many European countries.

There are approximately 51,000 retail floral outlets in the United States. Mass market floral outlets, mostly grocery stores, account for 17,000, but the majority (about 34,000) are independent retail floral shops.

These independent outlets accounted for an estimated \$6.81 billion in 1986, or 82 percent of total retail sales, excluding nursery and greenhouse outlets. Although grocery store retail sales of flowers and plants were only \$1.49 billion in 1986, or 18 percent of the total, floral sales averaged \$28 per square foot per year, compared with \$8-12 per square foot for other produce.

Grocery chains have discovered that consumers like the diversity and convenience of green plants, fresh cut flowers, and flowering potted plants in the produce section along with fruits and vegetables. Floral products are the fastest growing category in grocery stores and other mass markets.

World Trade Soars for Cut Flowers, Potted Plants

International trade in flowers and plants is extensive in both value and volume. A 1981 Dutch study showed that the annual world trade in ornamentals may have reached \$20 billion. The study reported that world exports of cut flowers rose by more than 175 percent between 1973 and 1981, and total world exports of potted plants during the same period increased by at least 500 percent.

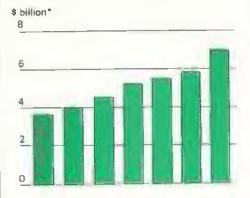
Holland is the world's largest exporter of floral products; West Germany is the largest importer. In 1981, only six countries—Holland, Colombia, Italy, Israel, Denmark, and Belgium—handled 90 percent of flower and plant exports. But export sources are broadening dramatically in the 1980's.

U.S. Consumers Buy Most Domestic Flower & Plant Production

The United States is the world's largest producer of flowers and plants. It is a major importer and a minor exporter.

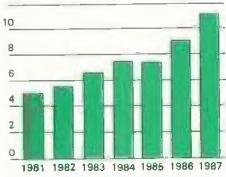
In 1987, the United States imported \$244 million of fresh cut flowers and an additional \$142 million in nursery products. Both categories have seen substantial growth in domestic production, imports, and sales during the past decade.

Greenhouse and Nursery Sales Growth...



... Spells Bigger Share of Receipts From All Crops

Percent of receipts



*Farm value; excludes food crops grown under

\$ million* B00 Cut flowers & greens Potted flowering plants Foliage plants 600 Bedding plants

U.S. Floriculture Flourishes



*Grower sales, equivalent wholesale value for 28 crops.

1985

1986

1987

u.S. Production, Supply, & Consumption of Greenhouse & Nursery Products

| Uholosale | | | | ****** | Co | osumption | |
|-------------------------------------|--|---|--|---|--|---|---|
| value of domestic production | Value of imports | Total supply | Value of exports | Total | Per capita | Change from prev. year | u.S. share of domestic market |
| | | \$ 1,000 | **** | | \$ | Percent | Percent |
| | | | | | | | |
| 406,555 359,826 371,509 | 243,609 234,895 220,870 | 650,164 594,721 592,379 | 17,985 18,164 21,068 | 632,179 576,557 571,311 | 26.03 23.97 23.98 | 9.6 0.9 n/a | 64.3 62.4 65.0 |
| | | | | | | | |
| 6,570,130 5,435,178 5,115,471 | 132,335 157,330 104,020 | 6,702,465 5,592,508 5,219,491 | 49,168 44,306 34,197 | 6,653,297 5,548,202 5,185,294 | 274.00 230.66 217.68 | 19.9 7.0 n/a | 98.7 98.0 98.7 |
| | | | | | | | |
| 6,976,685 5,795,004 5,486,980 | 375,944 392,225 324,890 | 7,352,629 6,187,229 5,811,870 | 67,15 3 62,470 55,265 | 7,285,476 6,124,759 5,756,605 | 300.03 254.63 241.66 | 19.0 6.4 n/a | 95.8 94.6 95.3 |
| | domestic production 406,555 359,826 371,509 6,570,130 5,435,178 5,115,471 | 406,555 243,609 359,826 234,895 371,509 220,870 6,570,130 132,335 5,435,178 157,330 5,115,471 104,020 6,976,685 375,944 5,795,004 392,225 | Value of domestic yalue of supply sup | Value of domestic value of supply exports supply exports supply exports 1,000 | Wholesale value of domestic production imports supply exports Total supp | Wholesale value of domestic production imports supply exports Fotal capita 406,555 243,609 650,164 17,985 632,179 26.03 359,826 234,895 594,721 18,164 576,557 23.97 371,509 220,870 592,379 21,068 571,311 23.98 6,570,130 132,335 6,702,465 49,168 6,653,297 274.00 5,435,178 157,330 5,592,508 44,306 5,548,202 230.66 5,115,471 104,020 5,219,491 34,197 5,185,294 217.68 | Wholesale value of domestic production imports supply exports Fotat capita prev. year \$ 1,000 |

1/ Includes foliage and potted flowering plants, bedding plants, decorative greens, bulbs, woody ornamentals, and other nursery stock. 2/ 1987 preliminary estimate.

Ornamental markets and trade are changing rapidly in response to exchange rate differences. Although U.S. imports continue to rise, the rate of increase has slowed. Colombia remains the numberone country exporting to the United States.

U.S. growers' share of the domestic cut flower market had fallen to less than 65 percent in 1986, but it has increased during the last year. U.S. growers still control nearly 96 percent of all sales of ornamentals and nursery products in this country. Total exports of ornamentals from the United States in 1987 were valued at \$67.2 million, excluding flower and vegetable seeds. About 75 percent of U.S. ornamental exports enter Canada.

Dollar's Slide Has Slowed U.S. Imports

Imports from developed countries, such as Holland, and some developing countries, such as Colombia, have fallen during the past 2 years, after peaking in 1985. Until 1985. U.S. importers were able to obtain foreign products at comparatively low cost as the dollar gained buying power against other currencies. But for the past 2 years, the dollar's buying power has fallen to a postwar low, and freight costs paid by foreign supptiers have risen.

Despite the less expensive American dollar, Dutch flower exports to the United States have grown from \$5 million annually in 1981 to \$100 million, according to the Floral Council of Holland, which also shows a total of 203 million stems exported to the United States. The Dutch and other floral experts refer to the United States as "the largest underdeveloped market in the world for flowers."

The cost of Dutch cut flowers and tulips to U.S. importers has nearly doubled during the past several years. Consequently, the Dutch have shifted their exports to the EC and the Far East.

The United States still imports large volumes of cut flowers, foliage plants, and tulip bulbs (over 200 different varieties) from Holland and other countries. But domestic production of both traditional and nontraditional crops is increasing.

Since the Colombian peso is tied to the U.S. dollar, fluctuation in exchange rates did not affect trade. In 1981, Colombia supplied nearly 75 percent of the U.S. imports of cut flowers, but by 1987 this share had fallen to 57 percent, as U.S. import sources diversified. Nevertheless, Colombia will continue to be a dominant supplier of floral products to the United States.

The EC is growing more lucrative to South American growers. For example, in January, South American carnations exported to Holland sold at auction for 30 cents a stem, but in the United States they brought only 6-7 cents a stem.

International Production & Trade Expanding, Diversifying

The less expensive dollar helped U.S. growers to find export markets, but stiff competition will continue as other countries gear up their floriculture production for export. These include: in Africa, Zimbabwe, Kenya, and South Africa; in the Far East and Pacific Rim, Thailand, Singapore, New Zealand, and Australia; in the EC, France, Italy, and Spain; and, in the Middle East, Israel.

Large increases are also expected from Mexico, other Central and South American nations, and Caribbean Basin countries. Canada, too, is expected to raise production and is interested in stepping up exports to the United States.

The United States is likely to see not only larger imports of the major floral crops (carnations, roses, chrysanthemums, statice, gypsophlia, chamadorea, lilies, gladioli, freesia, alstroemeria, and daisies) but also a wider diversity of tropical crops (Bird of Paradise, Red Ginger, Heliconia, orchids, callas, anthuriums, and proteas).

U.S. growers have recently begun producing tulips, alstroemeria, gerberas, lilies, daffodils, tropical follage, bulbs, and other ornamentals typically supplied by foreign countries. Since exchange rates are favorable and trade agreements may improve, U.S. growers are diversifying their export markets. At the same time, the U.S. ornamental industry continues to compete on price, quality, and consistency of supply. [Doyle C. Johnson (202) 786-1884]



Competitors' Grain Crops To Change Little

Foreign grain production excluding rice is forecast up 3 percent in 1988/89, led by increases in Europe and the Soviet Union. However, among the major exporters competing with the United States, smaller gains in grain area and production are projected. Total area and production of competitor wheat and coarse grains are expected to climb less than 2 percent, remaining below the levels of the early 1980's.

Early crop projections are subject to considerable change during the year. Revisions are especially likely for crops in the Southern Hemisphere. Concerns about hot and dry weather in the United States and Canada and the recent runup in prices may have influenced Southern Hemisphere farmers' planting decisions, which are made in May and June. Nevertheless, among the individual competitors, only a few large adjustments in area or production are now projected, and the changes tend to offset each other.

Global grain production excluding rice is projected to rise 3 percent in 1988/89. As in 1987/88, global consumption is forecast to exceed production, resulting in further stock drawdowns; total grain supplies are again expected to fall. World wheat and coarse grain carryin stocks are forecast 13 percent lower than in 1987/88 and are projected to decline another 10 percent by the end of 1988/89.

Wheat Market Has Tightened More Than Coarse Grain

This projected tightening of grain supplies is more pronounced for wheat than for coarse grains. A small increase in competitor area is not surprising for coarse grains, but early projections of only a small response by wheat competitors to a more favorable market are somewhat puzzling.

The recent low point in grain trade occurred in 1985/86. Since then, wheat trade has recovered substantially, with 1987/88 falling only 3 million tons short of the record.

In the face of solid demand, and with shortages of high-quality milling wheat, prices have increased significantly in recent months. Continued strong import demand, combined with dry weather in the United States and a decline in U.S. and competitor supplies, is expected to lead to higher export prices during 1988/89.

Increased wheat production in several major importing countries, especially the Soviet Union, together with reduced competitor supplies and higher prices, may result in a 3-percent decline in 1988/89 world wheat trade, to 101 million tons (excluding intra-EC trade).

Unlike wheat, coarse grain trade has been flat since 1985/86. Financial constraints, some substitution of feed wheat for coarse grains, and large crops and slow expansion of livestock production in many importing countries have contained growth.

Compared with wheat, coarse grain stocks are abundant. However, prices strengthened during 1987/88, mainly reflecting shortfalls in competitor corn supplies. For 1988/89, coarse grain prices are unlikely to change as much as

wheat, while world coarse grain trade is forecast to increase nearly 4 percent to 86 million tons.

Price Formulas Dampen Incentives to Farmers

Why have most competitors' responses to improved grain prices been muted? The reasons are, first, administered price schemes that partly insulate farmers from both upward and downward movements in world prices and, second, more attractive prices for other crops.

Government price programs are the norm for most competitors; often these are based on averages that smooth out large price changes. The one unfettered price system among the major competing grain producers is in Thailand; the Argentine market is only relatively free.

In the EC, the Common Agricultural Policy shields farmers from the world market. Internal policies have a much greater impact than world price shifts.

Because of low world prices and exchange rate movements, EC budget costs have risen and contributed to some cuts in real prices to farmers. Early in 1988, the EC passed a policy reform package that included a limited system of price "stabilizers." These may cut cereal support prices by 3 percent in the next marketing year if production exceeds a threshold. Also included in the EC package is a set-aside scheme and an additional producer co-responsibility tax.

Nevertheless, no immediate impact on EC output seems likely from these measures.

| | 1986/87 | 198 7/88 P | 1988/89f |
|---|---|---|---|
| | 1 | Hillion metric ton | S |
| Wheat Argentina Australia Canada EC | 8.9 16.2 31.4 71.9 | 10.0 12.1 26.3 71.2 | 10.0 13.0 25.4 74.9 |
| Total | 128.4 | 119.7 | 123.3 |
| Coarse grains Argentina Australia Canada EC South Africa Thaitand | 13.0 6.6 25.5 81.3 7.9 4.6 | 13.0 6.8 26.0 82.2 8.3 3.0 | 13.2 7.8 22.2 85.3 8.9 5.1 |
| Total | 138-9 | 139.3 | 142.4 |

In some cases, prices for oitseeds and pulses have been sufficiently high to keep competitors' area out of grains. For example, barley area in Canada is expected to fall 15 percent in 1988/89, with most of the reduction going into rapeseed.

There was a large shift from com to soybeans in Argentina in 1987/88 because of price movements favoring soybeans. The outlook for Argentina's 1988/89 corn crop hinges largely on price relationships at the time of planting. Similarly, record prices for wool have led to increases in the Australian sheep flock and have apparently reduced interest in wheat despite the recent wheat price increase.

The only strong increase in producer prices among the competitors in recent months has occurred in Thailand. Corn prices there have soared because of low supplies and strong demand. Prices are high enough to attract back to corn some land that had been planted to cassava or soybeans last year, and to stimulate more input use.

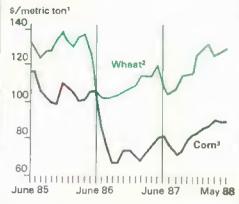
Competitors' Wheat Production Rising Only Marginally

Wheat area in the major competing countries is forecast to rise by less than 1 percent in 1988/89. While expectations of higher prices in Australia and Argentina may bring some wheat area back into production, wet autumn weather in the EC prevented some winter wheat from being planted. Assuming average yields in Argentina and Australia and improved yields in the EC, competitor production is forecast at 123.3 million tons, only 3 percent above 1987/88.

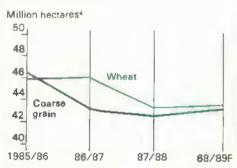
Farmers in Australia are expected to boost wheat area by 4 percent, to 9.5 million hectares. However, the prices of wool and legumes may still be high enough to discourage the farmers who shifted 2.2 million hectares out of wheat in 1987/88 from bringing much of it back.

Price increases may encourage producers in Argentina to expand wheat area to at least 5.3 million hectares, 8 percent above 1987/88. However, should yields drop back to normal, production there is not expected to exceed 1987/88.





...Has Not Made U.S. Competitors Expand Grain Area



¹Monthly average price, f.o b. Gulf Ports ²Hard fled Winter Wheat No. 2. ³No. 3 yellow corn. ⁴Excluding rice. Major competitors for wheat are Canada, EC, Australia, & Argentina; for coarse grains, Argentina, Australia, EC, South Africa, & Thailand F=forecast

Canada's wheat area is projected to decline marginally to 13.4 million hectares. The Canadian Wheat Board announced that the payment for the 1987/88 crop would be increased by 9 percent, and then announced that the 1988/89 price would equal the adjusted 1987/88 price. However, the higher price is not expected to be enough to bring back area taken out of wheat last season. In addition, continued dry weather in the prairie is eausing some concern about the condition of Canada's spring wheat.

Wet conditions in the autumn prevented planting some EC wheat area, particularly in Italy and the United Kingdom. Total EC wheat area is forecast to decline 2 percent to 15.6 million hectares, but yields are expected to be higher than in 1987/88. However, summer and harvest weather can still strongly influence the crop.

Rebound in Corn Will Raise Competitors' Coarse Grains Slightly

Total coarse grain production in 1988/89 for the major foreign exporters is projected to increase only 2 percent, with area also up 2 percent. Competitors' corn output is projected to rise most significantly. Excluding the EC, where no change is anticipated, the corn outturn could be up 14 percent over 1987/88. Smaller increases are likely for competitors' barley and sorghum output.

The most dramatic change among the coarse grain competitors is likely in Thailand, where a poor monsoon hurt the 1987/88 corn crop and area planted was already down because of low prices. In 1988/89, Thai com production is projected to jump more than 75 percent, to 4.8 million tons. This will enable Thailand to recapture some of its traditional export markets.

An increase in corn production is also projected for South Africa, despite its policy of diversifying away from corn exports in the face of low world prices. Area is expected to increase and production could expand by 500,000 tons to 8 million. A drop in South Africa's 1987/88 corn area—to the lowest in recent decades—was due to poor planting conditions, as well as to the diversification program and high wheat prices.

Argentina's coarse grain output is projected about the same as in 1987/88, although area may rise 4 percent. An average Argentine growing season could mean more abandonment in 1988/89, offsetting some of the likely increase in plantings, while yields are not expected to match 1987/88. Last season, with excellent conditions and high yields, there, was below-average abandonment.

Although not usually categorized as a major exporter, Eastern Europe is projected to have a large rebound in corn production that will allow for higher exports and lower imports. An increase of 6 million tons of corn is possible, assuming a recovery of yields after poor weather in 1987/88. An area increase is expected in Yugoslavia, where free market prices have been strong because of tight supplies.

A small drop in China's corn crop to 76 million tons is projected in 1988/89, with area falling 3 percent. Following the bumper crop of 1987 and a slowing in the growth rate of feed demand, free market corn prices stagnated or declined.

Competitor barley production is likely to show little change, rising less than 1 percent from the previous year. A sharp drop projected for Canada is more than balanced by increases for the EC and Australia.

Given lower prospective area and assuming normal yields, Canada's barley crop is forecast to fall 3 million tons to 11.3 million. But a gain of 3 million tons is projected for EC barley. Most of it is attributed to continued strong growth in yields and to better crops in Spain, the UK, and Denmark. In Australia, prices for malting and feed barley have improved and a slight increase in area is forecast. Average yields could boost barley output by over 10 percent, or 400,000 tons.

The outlook for sorghum production is for increases in each of the major competitors. Farmers in Australia are realizing better prices for both sorghum and oats; this is expected to boost planting and production. No significant shifts in sorghum area are projected for either Argentina or Thailand, but production in both countries is forecast to be up slightly. [Pete Riley and Sara Schwartz (202) 786-1825]



Resources

CHANGES AFFECT SEVENTH CRP SIGNUP

The seventh signup for the Conservation Reserve Program (CRP) is scheduled for July 18-August 5. During the sixth signup, held in February, USDA received bids for approximately 4.5 million acres for the 10-year cropland retirement program.

However, cropland contracts resulting from the sixth signup amounted to 3.4 million acres, bringing total CRP enrollment to 25.5 million acres. To farmers who place highly erodible cropland into the CRP, USDA pays an annual rental fee and defrays up to half of the cost of establishing a permanent cover, usually grass or trees.

Following the fifth signup, 60 percent of CRP enrollment was concentrated in the Northern Plains, Southern Plains, and Mountain States, although these regions accounted for only 45 percent of eligible land nationally. The Corn Belt, which contained approximately 24 percent of the nation's eligible land, accounted for only 14 percent of enrollment.

In part to modify this imbalance, USDA made program changes with the sixth signup. These important changes in eligibility, rental rates, and bid acceptance will continue to influence bidding in the next signup.

Tree-Cover Eligibility Increased Significantly

Changes made before the sixth signup have increased the amount of land eligible for the CRP. To encourage tree planting, acres with lower erosion levels (from 3T to 2T, where T is the normal soil-loss tolerance level) were made eligible for tree cover.

A second change was made in the qualifications for tree cover. Formerly, to enroll a field for tree planting, at least two-thirds of the field had to be classified highly erodible. Beginning with the sixth signup, however, only one-third of the field had to be highly erodible to qualify.

Together, these changes resulted in significant increases in acres bid for tree planting last February. Interest was especially strong in the South; area bid for tree planting accounted for 94 percent of total acres bid in Georgia and Florida, and 89 percent in South Carolina.

To reduce water quality degradation from surface runoff, filter strips were designated as an approved CRP conservation practice. Filter strips may be placed on 66-99 foot wide areas of cropland adjacent to streams, lakes, estuaries, and other permanent bodies of water, regardless of land class, current erosion, or erosion potential.

Bid Acceptance Changes Will Influence Seventh Signup

Following the sixth signup, USDA Maximum Acceptable Rental Rates, or MARR's, were increased for 27 bid areas, or pools; counties are grouped by land characteristics into pools. These pools were located primarily in the Corn Belt, Wisconsin, and the Chesapeake Bay drainage area. Three new bid pools with higher maximums were also created by partitioning existing pools in Pennsylvania (one new pool) and Virginia (two new poots).

The largest dollar increases in MARR's, \$25 per acre, were conferred on two pools in Illinois, while the greatest percentage increase (40 percent) occurred for a pool in Virginia. Since these increases were not known to farmers prior

to the February signup, they had little effect then. But, they could stimulate greater participation in these areas during the upcoming signup.

The fiscal 1988 Continuing Budget Resolution (P.L. 100-233) requires that CRP rental payments not exceed prevailing local cash rental rates. Thus, county ASC committees reviewed USDA-established maximum rates beginning with the sixth signup.

If a MARR exceeded average county cash rental rates, the committee was authorized to reduce it. Committees for 325 counties (approximately 10 percent

of U.S. counties) deemed the MARR's there too high and lowered them.

However, since MARR's had been raised after the sixth signup in the Corn Belt and Chesapeake Bay regions, the reduction meant that only 108 counties experienced a net MARR decrease from the rates in effect for the fifth signup.

Machinery Sales See Surge, But It's Probably Temporary

Sales of farm machinery increased markedly in July 1987-May 1988. Sales of 2-wheel-drive tractors of over-99 horsepower (hp), 4-wheel-drive tractors, and combines increased by 113, 22, and

22 percent, respectively, compared with the same 10 months a year earlier.

This increase was mainly driven by significant price cuts instituted by manufacturers to reduce inventories or maintain market share. The most significant price cutting began in the latter half of 1987.

Without these sales incentives, there would have been a more modest increase in sales. Furthermore, because the percentage increases in sales are based on the depressed rates of recent years, the measures can be misleading.

Still, there has been enough improvement in the farm economy so that, even without additional incentives, sales of new machinery in 1988 are expected to be above 1987.

The divergence from seasonal sales patterns suggests that sales incentives are responsible for the surge. In late July 1987, over-99 hp 2-wheel-drive sales began to climb. The 113-percent increase in volume resulted mainly from price reductions of up to 60 percent. Unit sales of 4-wheel-drive tractors and combines in 1987 followed normal seasonal patterns and showed no significant change from 1986. However, January-April 1988 sales of 4-wheel-drive tractors and combines were 94 and 226 percent higher, respectively, than the same period last year.

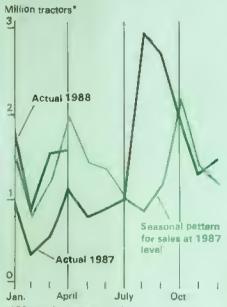
Again, high percentage increases in sales of some units do not indicate that demand is strong. Sales of larger machines in the first 4 months of this year represent less than one-third of the same period's 1975-79 average.

A number of farm financial indicators suggest why the demand for new machinery shows some improvement yet remains weak. Although no recent data are available, the stock of machinery on farms is growing older, and dealer inventories of used equipment are apparently lower than normal.

A record \$56 billion in net cash income for 1987 helped improve farm financial conditions. Net cash income in 1988 is expected to maintain the 1987 level. However, the same Government programs which removed 47 million acres of cropland from production by 1986 removed an additional 29 million in 1987, and are expected to remove 4 million more in 1988, further decreasing farm machinery use.

The 1986 Tax Reform Act eliminated the investment tax credit, raising the after-tax cost of farm machinery investments. Although real (inflation-adjusted) interest rates have edged downward, they remain high by historical standards. Agricultural land values increased by 3 percent from February 1987 to February 1988, but when measured with inflation-adjusted dollars they show a 1-percent drop. [LeRoy Hansen (202) 786-1456]

Monthly Tractor Sales Returning to Seasonal Pattern This Year



*100-plus hp two-wheel-drive tractors

Measures of Farm Machinery Sales

| ricaser da 4. Tarin jie | | | | | | | | | |
|---|--|---|---|--|--|------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | 7/86 - 4/87 | 7/87 - 4/88 | Change | 1/87 - 4/87 | 1/88 - 4/88 | Change | 1/86 - 4/86 | 1/87 - 4/87 | 1/88 · 4/88 |
| Tractors | Unit | :s | Percent | Unf | ts | Percent | | of JanApr crage sales | |
| 2-wheel-drive* 4-wheel-drive Combines Forage harvesters Balers Mower conditioners | 7,962 1,571 6,380 1,873 3,993 7,254 | 17,000 1,911 7,783 1,759 3,621 6,938 | 113 22 22 -6.1 -9.3 -4.4 | 2,985 483 485 351 863 1,856 | 5,706 935 1,583 358 1,016 2,174 | 91 94 226 2.0 18 17 | 22 22 24 21 33 56 | 12 16 10 27 28 52 | 23 31 32 28 32 71 |

Source: Farm and Industrial Equipment Institute.

^{*}Over-99 horsepower.

Net reductions ranged from as much as \$30 to only 2 cents per acre, with 48 percent of these county committees calling for a net reduction of \$10 per acre or more. County committees are responsible for reviewing bids to ensure that they do not exceed prevailing cash rents for comparable cropland. [Tim Osborn (202) 786-1434]

Upcoming Releases from the Agricultural Statistics Board

The following list gives the release dates of the major Agricultural Statistics Board reports that will be issued by the time the August Agricultural Outlook comes off press.

July

- 1 Egg Products Poultry Slaughter
- 6 Dairy Products
- 7 Celery
- 11 Noncitrus Fruits & Nuts-Midyear Supplement
- 12 Crop Production
- 13 Turkey Hatchery
- 15 Mink Milk Production
- 18 Vegetables
- 19 Farm Prod. Expenditures, 1987 Summary-Final
- 20 Catfish
- 22 Cattle on Feed Livestock Staughter Cold Storage
- 25 Eggs, Chickens, & Turkeys
- 28 Peanut Stocks & Processing
- 29 Cattle Agricultural Prices



Farm Finance

INCOME PROJECTED STABLE IN 1988

The forecast range for farmers' 1988 net cash income was raised to reflect early June data, but it does not yet reflect potential impacts of the drought on production. Indicated net cash income is \$53-\$59 billion, about in line with 1987. Net farm income is projected at \$42 to \$48 billion, compared with \$46 billion last year.

Record or near-record livestock receipts and a \$4- to \$6-billion rise in crop receipts may be offset by lower direct Federal payments and higher production expenses. Because of the drought, income returns for individual farmers may vary widely from what they would have been with normal rainfall.

Early dry conditions in the major corn, soybean, and wheat producing regions introduce a large degree of uncertainty into crop receipt estimates. Spring-planted crops are under stress from above-normal temperatures and below-average rainfall in many areas. Commodity markets are responding with upward pressure on crop prices. (See "Drought Conditions in Mid-June" on page 2 for more information.)

Progress is expected again this year in the sector's balance sheet. Farm debt may fall to \$132-\$142 billion from a high of nearly \$193 billion in 1983. Farm assets are projected to rise again after bottoming out in 1986. Increased assets and lower debts should spur farm equity to the highest since 1984.

Income stability and continued financial gains are occurring this year despite lower direct Federal subsidies and higher production expenditures. The farm financial recovery is supported by several economic adjustments:

- Wheat, rice, corn, and soybean stocks are projected down an average of 22 percent. Tighter supplies are prompting higher prices and improved earnings for the crop sector.
- A 4-percent gain in cattle prices, near-record cattle sales, and continued pork and poultry expansions may hold livestock receipts near last year's record \$75 billion.
- With higher crop prices, reliance on the CCC for price supports during the remainder of 1988 should be virtually eliminated. The open market will then account for all sales of program commodities.
- Federal payments, forecast to decline 15 to 20 percent as market conditions improve, nevertheless may add \$12 to \$14 billion to gross farm earnings, the second highest on record.
- Interest expenses may fall to \$13-\$15 billion, down from over \$21 billion just 4 years ago, as debts are paid off. This would mark the fifth straight year of debt reduction.
- A 2- to 4-percent rise in nominal land values and higher valued livestock inventories may boost equity by \$20 to \$30 billion in 1988

Higher Crop Earnings Support Recovery

Projected to rise 5 to 11 percent, crop receipts may reach \$64 to \$68 billion, reversing 2 successive years of decline. This is a turnaround; in the last few years, rising livestock earnings and CCC

price and income support programs shored up farm income and supported the financial recovery despite lower crop earnings.

Soybean receipts are projected up more than other commodities, led by 15- to 20-percent higher prices. Weather concerns have strengthened prices, with parts of the country experiencing the driest spring in 50 years. Stable acreage and a one-third reduction in stocks are also supporting soybean revenues.

Food grains are expected to add \$1.0 to \$1.5 billion to 1988 receipts, with wheat prices averaging 15- to 30-percent higher. Larger exports and dwindling stocks are strengthening wheat prices. Beginning wheat stocks are expected to be one-third below a year ago, while rice stocks may drop around 40 percent.

Following low net loan placements for all crops last year, withdrawals of CCC stocks are forecast to exceed placements in calendar 1988. In contrast, combined 1985 and 1986 placements totaled \$20 billion, making up one-fourth of commodity program cash receipts each year.

Federal Supports Lower As Crop Price Outlook Improves

After reaching a record \$17 billion in 1987, direct Federal payments are projected to decline to \$12 to \$14 billion this year. Two- to 4-percent lower support levels, higher market prices, and a 3.6-percent decline in eligible acreage enrolled in Federal programs underlie this decline.

A \$2- to \$4-billion reduction in certificate issuances and lower cash deficiency payments account for the bulk of the expected decline in direct Government outlays. Even though lower, direct payments will retain a significant role in farmers' income and financial recovery.

Near-Record Livestock Receipts Expected

Total livestock receipts are projected to be slightly above last year's record \$75 billion. They are forecast to rise \$200 to \$400 million, with price gains outweighing a 2- to 3-percent decline in production. Forecast at \$34 to \$35 billion, cattle and calf receipts could just miss

the 1979 record of \$35 billion. Poultry receipts may provide an additional \$500 to \$700 million, with production gains outpacing softer prices.

However, hog and dairy sales are likely to decline, keeping total livestock receipts essentially unchanged. After playing a key role in supporting 1986 and 1987 farm income, hog receipts are projected to slip S.5 to \$1 billion from last year. This outlook is driven by an expected hog price decline of \$5 to \$6 per cwt, offsetting anticipated growth of 5 to 6 percent in production.

Dairy operations likely will realize lower earnings; the 1988 support price was reduced 50 cents per cwt in response to near-record output.

Gross Earnings on the Rise Despite Reduced Federal Role

Gross farm income in 1988 may slightly exceed the year-earlier level. At \$168 to \$173 billion, gross income could be second only to the 1984 record, established in the wake of the 1983 PIK and drought year.

Although slight, this year's gain in farm earnings is important, given an anticipated \$1- to \$3-billion rise in production costs and a \$3- to \$5-billion decline in direct Federal supports. Federal payments as a share of gross income are projected to fall from a high of 10 percent in 1987 to 8 percent, as market prices for program commodities improve and livestock earnings remain strong.

Operating Costs Likely To Climb

The production expense outlook is for a \$1- to \$3-billion rise, following sharp declines in 1985 and 1986 and a modest increase last year. Items likely to raise this year's costs the most include feed, fertilizer, and feeder livestock.

With feed grain prices projected to continue up in 1988, livestock operators will shoulder higher costs. Feed costs are expected to rise nearly \$2 billion, more than any other expense item. Impacts will be strongest in the Corn Belt, Pacific, and Lake States, reflecting the concentration of beef, hog, and dairy production.

Fertilizer prices this spring rose 10 percent over a year earlier, implying higher production costs for corn producers. Higher prices, reductions in corn and sorghum voluntary paid land diversion requirements, and lower acreage reduction requirements for rice and cotton could increase fertilizer expenditures by 10 to 12 percent.

The Corn Belt, which typically accounts for around 30 percent of total fertilizer expenditures, is the region most affected by higher fertilizer prices. [Richard Kodl (202) 786-1808]

JACKSON FLB IN RECEIVERSHIP

On May 20, the Jackson Federal Land Bank complex, with its 90 Federal Land Bank Associations, was placed in receivership. This is the first time in the history of the Farm Credit System that any of its institutions have been closed.

The Jackson district covers Alabama, Louisiana, and Mississippi. Serving 2,200 customers and holding \$2 billion in assets at the time of closing, it was the third smallest of the 12 Federal Land Banks (FLB's).

The Jackson bank's aggressive lending policies in the late 1970's and early 1980's and poor loan servicing are said to be the principal causes of its woes. In the past few years, the bank has been reluctant to foreclose on its farmer-borrowers.

There have been some allegations that many farmers who are in sound chough financial shape to continue making their payments have stopped in the hopes of a more favorable restructuring. Under the borrower rights provision of the 1987 Agricultural Credit Act, the amount of income "over and above necessary and reasonable living and operating expenses" must be used to repay primary obligations.

Questions arise over what is "necessary and reasonable." The banks are required to restructure the loans if the cost of restructuring is less than the cost of foreclosure.

The Jackson bank had been precluded since December 1987 from issuing bonds and making new loans because of its negative capital position and collateral deficiency. The bank reported a \$44.3-million loss for last year, despite improved farm conditions, and had been losing an average of \$4.7 million a month during 1988.

40 Percent of Loans In Difficulty

Roughly 40 percent of its loans were in nonaccrual status (90 days delinquent and with insufficient collateral) or in high-risk status (either 90 days delinquent but with sufficient collateral, or loans requiring abnormal servicing).

The Farm Credit Administration, the Farm Credit System's regulator, estimated the Jackson bank would need at least \$300 million, in addition to the \$30 million already provided this year, to regain its financial footing. The Farm Credit Administration decided the bank was unlikely to be able to repay that much capital within the 15 years required by the Agricultural Credit Act of 1987.

System officials were reported to be surprised at the Jackson bank liquidation. A merger between the bank and another solvent institution had been presumed, but no system institution was willing to assume the Jackson bank's portfolio, even with a pledge of financial assistance.

The Jackson bank's assets include \$94.6 million of outstanding borrower stock protected by the Agricultural Credit Act of 1987. The Assistance Board, created by the 1987 act to oversee assistance to Farm Credit System institutions, has agreed to provide the receiver with \$2 million to retire the stock of the 758 borrowers who have fully repaid their loans.

Arrangements have been made with the Columbia and Texas FLB's to provide interim full credit services to the three States affected by the Jackson bank closing.

The receiver, REW Enterprises, will sell the bank's assets and pay as many debts as possible. Some losses are expected. Good loans are expected to be sold to other system banks and bad loans restructured or foreclosed according to the 1987 act's borrower rights provisions.

Investors in Farm Credit System bonds were assured by the Assistance Board that the other FLB's would not be immediately liable for the Jackson bank's obligations, although the other banks will ultimately repay the funds. For now, these funds come from the \$4 billion provided for by the 1987 act.

No Credit Shortage Likely

The Jackson bank's failure likely will speed restructuring and foreclosure for many of its loans that are in default. But, the failure is unlikely to result in a credit shortage to qualified borrowers in the Jackson district. Holders of borrower stock will be able to redeem their stock at par, in accordance with the 1987 legislation, at the expense of other Farm Credit System institutions. This expense will not be felt, however, until the bailout loan is actually paid back.

Several other FLB's reported that they do not have enough capital left to cover borrower stock, and some petitioned the Assistance Board for help. On the same day the Jackson FLB was closed, the Louisville FLB received \$90 million in aid. The Louisville bank, which lost \$29.7 million last year, reported a 35-percent impairment of borrower stock. The Louisville bank is the fifth smallest FLB and serves Kentucky, Indiana, Ohio, and Tennessee.

An interesting stipulation of the Louisville aid is the requirement that Land Bank Associations of the district make loans at market rates. Many analysts have noted the tendency for financial institutions to make riskier loans as they approach insolvency. The Louisville requirement is designed to prevent such risky loans.

The insurance safety nets now in place minimize risk to the financial system as a whole by minimizing the loss associated with bankruptcy; the protections have the unintended effect of encouraging the institutions to risk more when they have less equity to lose. Last April, both the American Bankers Association and the Farm Credit Administration protested alleged undercutting of market loan rates by Farm Credit System institutions.

In testimony before Congress, Farm Credit System officials refuted this claim, and cited an urgent need to regain market share that has now dropped by \$30 billion in the past 4 years.

Two other FLB's, St. Paul and Omaha, have requested assistance. St. Paul, with \$5.6 billion in assets, is the largest Federal Land Bank and association complex and reported a \$36.1-million loss for 1987. It is asking for \$128 million and is expected to get it.

Omaha, the fourth largest, lost \$109.6 million. The Omaha Land Bank later withdrew its request for assistance. A planned merger with the Omaha Federal Intermediate Credit Bank will bring the capital up to an operationally viable level. [Merritt Hughes (202) 786-1892]

Upcoming Economic Reports

Summary Released Title

July

- 12 World Ag. Supply & Demand
- 13 Livestock & Poultry
- 19 Dairy
- 20 Agricultural Outlook
- 21 Oil Crops Yearbook
- 28 Agricultural Resources
- 29 World Food Needs & Availabilities National Food Review



World Agriculture & Trade

WHAT EXPLAINS WHEAT EXPORT RISE?

U.S. wheat export volume has improved considerably since implementation of the Food Security Act of 1985. U.S. stocks have been pulled down and wheat that was once in or headed for Government storage has been exported instead, at more competitive prices.

The Food Security Act of 1985, according to an ERS model, accounts for nearly half of the increase in U.S. wheat exports since 1985/86. Implementation of the act has also resulted in higher EC spending for export subsidies. The model attributes most of the rest of the U.S. wheat export increase to factors that have expanded imports by the centrally planned economies—factors that are internal to these economies and are not related to U.S. programs or the world price.

Four Factors Caused Wheat Export Rise Since 1985

Over 95 percent of the expansion in actual/projected U.S. wheat exports during 1985/86-1988/89 is due to four factors:
(1) the Export Enhancement Program,
(2) the lower wheat loan rate, (3) reduc-

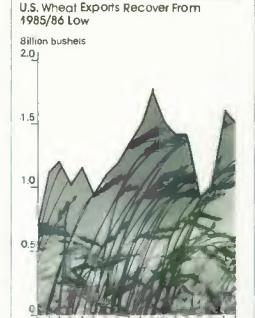
tions in competitor yields, and (4) increased imports by the Soviet Union, China, and Eastern Europe. The depreciation in the value of the U.S. dollar had only a small impact on U.S. wheat exports, according to the model.

Suppose the 1985 act had not been implemented, competitor yields had not fallen, and imports by the centrally planned economies had not expanded. In that case, U.S. wheat exports would have fallen from 915 million bushels in 1985/86 to 650 million in 1986/87 and would subsequently expand to just 993 million by 1988/89. This is the low export scenario.

Even the low export scenario shows some rise since 1985/86, but this small rise is not addressed by the model. It is the market expansion between the low export scenario and actual/projected exports that is explained by the four factors in the model.

Half the Rise Due to The Centrally Planned Economies

Half the difference since 1985/86 between actual/projected exports and the low export scenario is due to an increase in imports by the USSR, China, and Eastern Europe aside from the EEP, and about a third is due to the EEP program. The model attributes the rest of the difference to the lower wheat loan rate and to lower competitor yields in 1987/88.

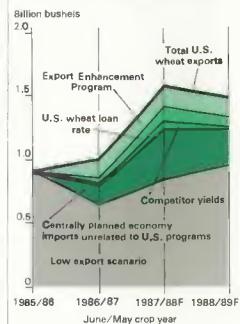


76 79/80 83/8 June/May crop year

1971/72 75/76

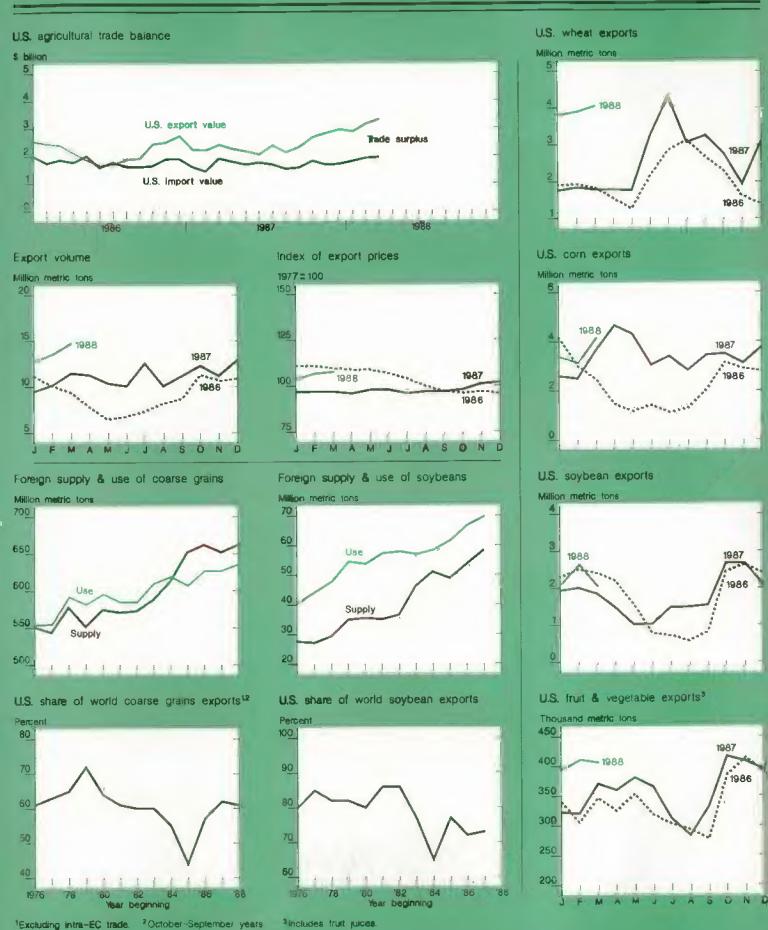
87/88





The centrally planned economies recently expanded wheat imports in response to internal inducements. The ERS model suggests this expansion lifted U.S. wheat exports 21 percent in 1986/87, 34 percent in 1987/88, and 24 percent in 1988/89 above what U.S. exports would have been without the import rise. That part of the increase in Soviet imports due to the EEP program is not reflected here, but rather in the EEP scenario.

In 1987/88, Soviet imports increased 5.5 million metric tons (mmt). The ERS model suggests that less than half of the Soviet increase is explained by lower USSR production, falling world wheat and crude oil prices, and the EEP program. The remainder of the increase is due to a poor quality Soviet crop and other factors. Imports of breadmaking-quality wheat were needed in 1987/88 to meet domestic food needs.



China's wheat imports increased from 6.6 mmt in 1985/86 to an estimated 13.5 mmt in 1987/88, and are expected to remain the same in 1988/89. This increase results from a growing population, rising incomes due to economic reforms, and sharply falling stocks. Bigger imports were needed to meet growing domestic demand for high-quality wheat and to maintain stocks.

China is an astute trader and is responsive to relative prices of competing suppliers once it determines its overall import volume. What is less clear, however, is the extent to which import volume has been affected by changes in the world price from one year to the next. Statistically, the responsiveness of China's overall import volume to annual changes in the world price was not found to be significant.

Even though its imports are not entirely market determined, China may have become more price responsive in recent years because of the EEP. So the EEP program could have been responsible for more than the one-third of the expansion in U.S. wheat exports that is estimated by this model. By the same token, internally determined imports by all the centrally planned economies could have been responsible for less than half of the U.S. wheat market expansion,

Net imports by Eastern Europe increased from 0.9 mmt in 1985/86 to 1.8 mmt in 1986/87 and fell marginally to 1.5 mmt in 1987/88. This increase comes from: (1) increased imports by Poland due to poor harvests and greater livestock feeding, (2) higher imports by Yugoslavia, which experienced poor weather and lower planted area, and (3) poor weather in Hungary and Bulgaria, which lowered their export volume. Imports may fall in 1988/89 if production improves in Eastern Europe.

Export Enhancement Program Is Second Major Boost

The EEP provides a bonus to exporters who sell to markets targeted by the CCC; the bonus is awarded on a competitive bid basis. Exporters can offer more com-

petitive export prices knowing they may receive a bonus from the CCC in the form of a generic certificate.

Some importers have purchased under a combination of EEP and export credit guarantees such as GSM-102 and GSM-103. The major EEP markets since the program's inception have been the Soviet Union, North Africa, and China.

The effect of the EEP on the world wheat market has been to increase U.S. wheat exports and the U.S. share of world wheat trade, and to raise the cost of the EC's exporting surplus wheat. Although the model indicates that the EEP is responsible for one-third of the U.S. wheat export expansion, this estimate depends on how much of China's imports can be attributed to it. The U.S. market share in major importer markets has also increased with greater EEP expenditures.

For example, the U.S. share of the Soviet wheat market rose from almost nothing in 1985/86 to about 50 percent in 1987/88. The U.S. market share in North Africa increased from just 38 percent in 1984/85 to 56 percent in 1986/87.

Lower Wheat Loan Rate Also Helped

Loan rates for U.S. program crops were lowered under the 1985 act to make U.S. farm prices more competitive in international markets. In the face of falling farm prices, farm income was maintained by increased deficiency payments.

Both the EEP and lower loan rates reduce export prices. However, they affect both export supply and import demand differently. The EEP tends to draw down existing stocks for export to targeted importers, whereas lower loan rates tend to redirect production above domestic use away from stocks toward exports through price competitiveness.

The ERS model suggests that the lower wheat loan rates boosted U.S. wheat exports, marginally reduced area planted in major export competing countries, and substantially lowered U.S. ending stocks.

Over 1985/86-1988/89, planted areas in the EC, Canada, Australia, and Argentina fell 1 to 6 percent from what each would likely have been with a higher U.S. loan rate and thus a higher world price. Planting decisions in the EC are conditioned on expected EC market prices and are isolated from the world market. These expected prices are in turn conditioned on the EC's Common Agricultural Policy, which over the long run may be influenced by changes in the world price.

Canadian wheat area is relatively unresponsive to changes in the world price, because of large production subsidies and a lack of major alternatives to wheat production in the Prairie Provinces. Australia and Argentina have responded to lower world prices with significantly smaller area and are switching to alternative crops.

Under the lower loan rates, U.S. stocks were reduced to meet increased demand. The ERS model suggests ending stocks were 9 percent lower in 1986/87 than they would have been with a \$3.30 loan rate, an estimated 26 percent lower in 1987/88, and will be 40 percent lower in 1988/89.

Retaining the higher loan and other program variables from the previous farm act probably would have meant a continuation of large crop forfeitures to the CCC. This would have maintained the farm price at the loan rate, but would have increased ending stocks and reduced exports.

Reductions in Competitors' Yields Lifted U.S. Exports Slightly

Wheat yields in the EC and Australia fell below 1985/86 in both 1986/87 and 1987/88. This reduced the exportable surplus for these two countries and thus increased the demand for U.S. wheat.

The model indicates, however, that lower competitor yields had a minor effect on U.S. wheat exports. U.S. exports over 1985/86-1988/89 increased just 1-4 percent from what probably would have occurred had competitor yields been better.

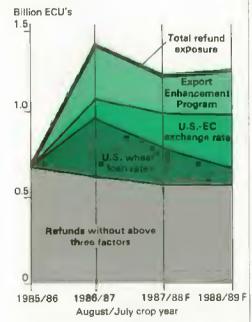
U.S. Dollar Depreciation Had Little Effect

Many analysts cite the U.S. dollar's appreciation relative to major trading partners as a reason for the loss of U.S. market shares in the early 1980's. The more expensive dollar coupled with a relatively high loan rate had made U.S. wheat export prices uncompetitive. Since then the dollar has become less expensive.

The decline in the value of the dollar has been considered a factor in expanding U.S. wheat exports, since the two occurred simultaneously. The analysis suggests, however, that the dollar's depreciation had little impact, for two reasons.

First, export competitors matched the lower U.S. wheat prices under the 1985 act, despite unfavorable changes in the

Three Factors Affect EC Refund Exposure



exchange rate, in order to be competitive with the United States. The impact of lower export prices on producer returns has been offset by support prices and other producer subsidies.

Second, the world's largest importers—the centrally planned economies—are relatively unresponsive to exchange rates. To the extent that the countries are price responsive, their import decisions are influenced by the relative prices of exporters in their markets, and by the amount of hard currency reserves they have allocated for wheat imports.

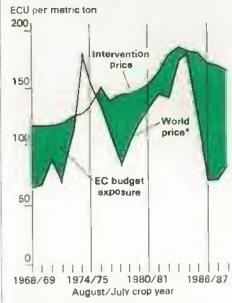
Food Security Act of 1985 Pressures EC Budget

The U.S. export promotion programs in the Food Security Act seek to match the competitor export subsidies that have eroded traditional U.S. markets. EC export subsidies for wheat, excluding sales out of intervention stocks, grew from \$365 million in 1985 to an estimated \$1.8 billion in 1988.

The EC uses export refunds to subsidize exports of surplus wheat. EC farmers need these subsidies to bridge the gap between the high EC market prices and the world price. This gap has increased significantly during the past 2 or 3 years as prices have fallen. The value of this gap multiplied by EC exports to world markets represents EC budgetary exposure to export subsidies for wheat, and is a proxy for actual EC budgetary expenditures.

EC budgetary exposure has been expanded in part by the EEP, the depreciation in the U.S. dollar, and the lower U.S. wheat loan rate. The accompanying chart, "Three Factors Affect EC Budget Exposure," estimates the impact of each of these. From a scenario of no change in exchange rates or U.S. farm programs from 1985/86, EC exposure to export refunds has increased by 120 percent in 1986/87, 110 percent in 1987/88, and 116 percent in 1988/89.

Lower World Wheat Prices Increase EC Budget Exposure



*Wheat export price, f.o.b. Rouen, France.

The EEP probably accounts for 35-40 percent of the increase in EC export refunds, according to the model. In conjunction with CCC export credit guarantee programs, the EEP helped the United States regain markets. The EC has increased its export subsidies in an effort to maintain its market share.

The depreciation in the U.S. dollar relative to the ECU—the European Currency Unit—has increased EC export refund payments by 13 percent in 1986/87, and up to 33 percent in 1988/89. The EC responded to the lower U.S. dollar by cutting its export price as expressed in ECU's, thus effectively maintaining its price denominated in U.S. dollars. Greater export subsidies were therefore needed to compensate EC exporters.

Compared with a \$3.30 loan rate, the drop in the U.S. wheat loan rate probably increased EC export refund expenditures by 32 percent in 1986/87, and will raise them by just 8 percent in 1988/89. The higher loan rate under the prior farm act supported higher world prices and kept EC export subsidy costs down. [Kenneth Bailey (202) 786-1611]

SOVIET REFORMS & AGRICULTURAL TRADE

Soviet demand for agricultural imports is a function of the country's economic and political goals and structure. The Soviets traditionally strove for national self-sufficiency, relatively low and stable prices for basic goods and services, and stable and sustainable growth in the quantity and quality of consumer goods and services, with higher priority for the defense and capital sectors.

These goals were sought within the framework of a centrally planned and managed economy, administratively set producer and consumer prices, and Government-controlled foreign trade.

Soviet leadership, although still firmly committed to a socialist political-economy, is changing some policies and institutions. These changes likely will affect agricultural trade, including U.S. agricultural exports.

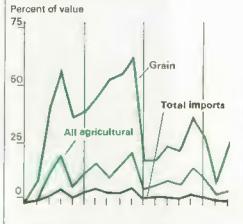
Food Self-Sufficiency Is Still Important Goal

In the past, to quote one Soviet economist," ...imports were a means of covering internal shortages and exports were regarded as a necessary evil, virtually the price paid for imports" in the USSR. Since the ruble is not a convertible currency, the USSR must earn sufficient hard (convertible) currency with its exports to pay for imports, or else work out barter agreements with individual countries.

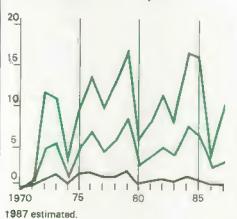
Large price increases for oil and gold, coupled with greater export volumes (including arms), raised Soviet hard currency earnings tenfold from 1973 to 1983, to over \$32 billion. The USSR used part of this windfall to increase agricultural imports. The imports helped shelter consumers from the effects of erratic domestic farm production and the stagnation in the agricultural sector that became problematic in the late 1970's and early 1980's.

The Soviets' agricultural imports rose from an annual average of \$2.6 billion (20 percent of total imports) in 1970-72 to almost \$19 billion (24 percent) in 1981-85. Grain imports rose from an average of \$0.5 billion (3 percent of total

U.S. Shares of Soviet Imports Fluctuate as Much as. . .



... Soviets' Share of U.S. Exports



imports) to almost \$7 billion (8 percent). Hard currency grain imports rose from

\$0.4 billion (6 percent of hard currency imports) to \$5.7 billion (21 percent).

Then, in the mid-1980's, hard currency revenues fell, averaging about \$26 billion annually in 1985-87. The drop, combined with larger domestic oilseed and grain harvests and generally lower world grain prices, helped the USSR cut its agricultural import bill. Agricultural imports in 1986-87 averaged an estimated \$15.5 billion per year (17 percent of total imports). Grain imports in 1986-87 averaged less than \$3 billion annually (3 percent of total imports), less than half the 1981-85 average.

The U.S. often captured a large share of the USSR's agricultural import growth. U.S. farm exports to the Soviets averaged \$1.5 billion annually during 1972-87, of which 95 percent was grain and oilseeds. In 1988, U.S. agricultural exports to the USSR will continue the rebound from 1986's 13-year low, and they should exceed \$1.4 billion because of much larger wheat, soybean, and soybean meal shipments. The U.S. provided the USSR with 13 million tons of wheat under the Export Enhancement Program in 1987-88.

As Soviet officials reevaluate the role of foreign trade, they cite renewed appreciation of the "Leninist principles" of the international division of labor. So far, however, this adjustment does not extend to a willingness to settle for lower domestic self-sufficiency in food.

The commitment to food self-sufficiency is illustrated by General Secretary Mikhail Gorbachev's announcement of the 1995 grain production goal of 260-280 million tons. This is 50 percent higher than the average of 1981-85, when grain imports averaged 40 million tons a year. Mr. Gorbachev stated, "Without increasing grain production it is impossible to resolve the task of ensuring the country's self-sufficiency in feeds and reducing imports."

Reforms initiated in 1986 relaxed some of the state's centralized control of foreign trade, putting trade of most equipment, machinery, and technology under the control of the relevant domestic industries. Still, the reform left about 80 percent of Soviet trade under the control of the Ministry of Foreign Trade (now reorganized into the Ministry of Foreign Economic Relations).

Trade in grains, oilseeds, meat and dairy products, fuel, and raw materials remains centralized. The super-ministry for the agro-industrial complex controls imports of cocoa beans and products, coffee, tea, spices, nuts, fruit and vegetables, baby food, tobacco, seed and seedlings, breeding stock, research animals, embryos, and slaughter livestock.

Soviets Rethink the Commitment To Low Food Prices

Prices of bread, pasta, meat, dairy products, and many other foods in Soviet state food stores (which account for most retail food distribution) have been stable since the early 1960's. Wages have increased continually and real food prices have declined since 1965.

Because of the low retail prices and the rising costs of production, processing, and distribution, state subsidies for agricultural commodities in 1987 were 60 billion rubles (\$94 billion)—about 15 percent of state expenditures. Meat and poultry accounted for 48 percent of these subsidies and milk 33 percent. Retail prices recoup only a third to a half of the state's expenditures for producing and marketing red meat and dairy products.

The Soviets are planning a major overhaul of the pricing system as part of the move from administrative to economic management of the economy. The reform is to be in place by 1991. Despite arguments from some Soviet economists for market-determined prices, though, the state likely will continue to set prices for a wide range of goods and services, and will impose guidelines and monitor those prices which can be set independently.

The Government says it will fully compensate lower income consumers, who likely spend over 50 percent of their incomes on food, for price increases for food or other basic goods and services. Officials argue that primarily middle-and high-income buyers, who benefit more from the current subsidies because of their much greater animal product consumption, will be affected by the price increases.

The domestic price hikes may have limited impact on agricultural imports. Public resistance may be so great that the increases will not be large, or incomes will be raised to offset the price changes. As incomes have climbed substantially and retail prices remained stable, the underlying demand for animal products and other preferred foods has become so great that it will exceed supply at any level of prices likely to be adopted under the reform. Furthermore, changes in consumer demand will be reflected in imports only as much as the state chooses, since trade in most foodstuffs remains entirely under state control.

Consumer Needs To Be Given Higher Priority

In restructuring the economy, the leadership maintains that Soviet consumer needs must be given higher priority as a proof of the viability of socialism, and also as a means to encourage interest in the reforms. The Government's plans to improve availability and quality of consumer goods and services, including food products, rely primarily on growth resulting from managerial and incentive changes.

The agro-industrial sector's already large share of total Soviet investment (over 30 percent) likely will not be increased. The usefulness of agricultural investments will continue to be constrained by the tendency to invest in large-scale projects with low returns.

However, the plan to shift a greater share of agricultural investment into processing and distribution should cut field-totable losses, now estimated at 25 percent and higher. Furthermore, agriculture may benefit indirectly from investment in other sectors of the economy, as the defense and heavy industries augment consumer production. For example, in 1988 the defense industry became responsible for production of food-processing equipment, after the Ministry of Machine Building for the Light and Food Industries was disbanded.

Soviet Agricultural Imports
Recede From 1981 Peak

U.S. \$ billion

20

15

Agricultural

Grain

5

1970

1975

1980

1985

1987 estimated.

The reforms aim to change the nature of the central control and thereby increase the productivity of existing resources. Within farms, factories, and other enterprises, managers and workers are to take greater initiative in production and marketing decisions. The Government is supporting contracting and leasing arrangements (including to family units), small- to medium-size member-initiated cooperatives, and even individual labor activities, to overcome the problems of large-scale, centrally planned production and distribution.

In agriculture, the Soviets say, such new arrangements can dramatically increase land, animal, and equipment productivity, and raise crop and livestock output. However, politicians and Government managers find it difficult to relinquish control. Purchase orders for essential state needs were to replace state plans that cover virtually all production in selected areas this year, but managers complain that the orders are different from plans in name only.

Along with increased independence, managers and workers now are expected to take more financial responsibility. With the greater risks should come greater rewards. But the Soviet tradition of income leveling will need to be overcome. Even new laws contain safeguards against "excessive" remuneration, and public sentiment in the press shows continued resistance to significant differentials in incomes.

Reform Results Less Than Potential

The changes planned and underway likely will help raise Soviet agricultural production and productivity and cut import requirements. But, they may not be thorough or effective enough to reduce import dependence radically. Officials may vacillate on the scope, pace, and details of restructuring, and vested interests are resisting change.

If Soviet leadership effectively implements more radical changes, possible increases in production and productivity could reverse Soviet import dependence. However, a more prosperous economy, more fully receptive to trade, would have the potential for absorbing more food and other consumer imports. [Kathryn Zeimetz (202) 786-1710]



Ethanol Could Affect Corn Prices, Farm Income, & Government Outlays

Recently, public attention has refocused on alcohol fuels as a solution to multiple problems: meeting standards of of the Clean Air Act; reducing U.S. petroleum imports, which have increased to levels of the early 1970's; and lowering corn stocks, which last year rose to nearly 5 billion bushels and drove corn prices to their lowest in 15 years. Alcohol fuels, using ethanol or methanol, offer one approach for addressing national air quality standards and energy security. Ethanol production, using corn as a feedstock, offers the additional possibility of an expanded domestic market for grain.

Under the current law, 10-percent ethanol blended fuels are exempt from 6 cents of the 9-cent-per-gallon Federal gasoline excise tax through September 1993. With the existing Federal tax exemption, ethanol likely will remain cost competitive as a fuel blending agent, especially given its value as an octane enhancer.

Without the exemption, and given the agricultural and energy market conditions likely to prevail over the next 10 to 15 years, it may be difficult for ethanol to compete on a direct cost basis with many other fuel blending agents. While low corn and grain prices are favorable for ethanol, the glut in world petroleum markets works against ethanol's competitiveness.

Ethanol Increases Corn Demand But Lowers Oilseed Demand

Although ethanol can be produced from many grains and from starch and sugar crops, nearly all ethanol in the United States

is produced from corn, thus affecting corn demand. As a byproduct, it increases output of high-protein animal feed.

Byproducts vary depending on the ethanol production process. For every bushel of corn converted to ethanol in the dry-milling process, 18 pounds of distiller's dried grains are produced. Wet-milling of 1 bushel of corn for starch, sweetener, or ethanol produces 2.5 pounds of gluten meal (60 percent crude protein), 12.5 pounds of gluten feed (20-21 percent crude protein), and germ which is converted into 1.6 pounds of corn oil.

Besides raising corn prices, expanded ethanol production reduces the demand for oilseeds, including soybeans, cotton-seed, and sunflower seeds. Lower prices for these crops would enhance the relative profitability of corn, at least in the near term. Depending on corn prices and Government programs, farmers likely would expand their corn planting relative to soybeans.

If 1987's favorable profit conditions for producing ethanol and the Federal tax exemption continued through 2000, production could increase threefold (to about 2.7 billion gallons per year) by the mid-1990's. The additional corn demand—nearly 800 million bushels per year—could increase corn prices by 35 to 50 cents per bushel, assuming future farm commodity programs are similar to the Food Security Act of 1985.

Oilseed and protein prices are reduced by increased ethanol production, because greater supplies of protein feeds and corn oil result. Ethanol production of almost 2.7 billion gallons would generate 5 million tons of soybean meal equivalent, an amount equaling 20 percent of current soybean meal production. In addition, it would generate over 800 million pounds of corn oil, equaling 7 percent of domestic edible oil production.

The resulting changes in relative corn and soybean prices would induce farmers to shift from oilseed to com production. The overall reduction in soybean prices likely would be minor.

Ethanol Modestly Increases Food Expenditures and Volume of Exports

If ethanol production grew threefold, it could cost consumers, through higher prices, an additional \$150 million per year in food expenditures. This is less than 1 percent of consumer expenditures on food.

Increases in the export volume of protein products likely would be offset by decreases in com exports, since corn prices would rise and protein product prices would fall. Export demand for other crops would climb slightly as other countries turned to substitutes for higher priced corn.

Aggregate Farm Income Effects Differ by Type of Producer

Farm commodity programs buffer the effects of market price changes on farm income. When market prices are low relative to target prices, and farmers' program participation is high, modest changes in commodity prices have little effect on farm

income. Under such conditions, increased ethanol production would have significant income effects only for farmers who were not participating in farm programs.

Changes in farm income would also be moderated by different effects among grain, oilseed, and livestock producers. Grain producers would increase their income, but livestock producers, who would pay higher corn prices, would lose. Even among livestock producers, income effects likely would vary. Those who could avoid higher corn prices by substituting ethanol byproducts for corn would reduce their feed costs. The amount of byproduct substitution for corn is limited, however, by animals' dietary needs.

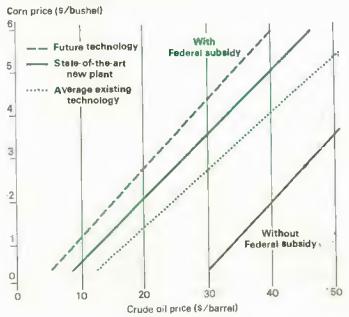
For small changes in ethanol production, commodity programs and offsetting effects among crop and livestock producers would result in relatively small effects on aggregate farm revenue and income. If ethanol production expanded to 2.7 billion gallons by 1995, net farm income would increase less than \$1 billion, assuming the provisions of the current farm bill extended beyond 1989.

Annual gross receipts from crop production could increase by \$1-\$2 billion. The largest gains in receipts would be for corn, and growers of sorghum and wheat would also benefit. The biggest losses would be for those specializing in soybeans and those who combine cotton and soybeans. Because different crops would gain and lose, interregional income would shift. The biggest decrease would occur in the Delta and the biggest increase in the Corn Belt.

Lower Program Costs Offset By Drop in Highway Revenues

From the Federal budget perspective, increases in ethanol production would decrease farm program costs in three ways. First, farmers in the program would receive lower deficiency

Ethanoi's Competitiveness Depends on Technology & Subsidies



payments as the price for the commodity was driven up toward the target price. Second, more farmers would be able to pay off their CCC nonrecourse loans, thereby reducing CCC storage costs.

Third, farmers' cost of participating in the program, in terms of forgone revenue from acreage set-aside requirements, would climb as the price increased. Therefore, the number of farmers participating in the program would decline. Lower deficiency payments, fewer participants, and lower storage costs would combine to reduce Government payments.

Corn price increases would cause competing grain prices to increase. The effect would be to lower program costs for wheat, sorghum, oats, and barley. Cumulative decreases in Government commodity program outlays through 1995 would be positive under a gradual expansion of ethanol to 2.7 billion gallons.

The largest outlay decreases would come from the comprogram. However, CCC soybean stocks might rise as high-protein ethanol byproducts competed in the animal feed market.

Federal savings from farm programs would be offset by forgone Highway Trust Fund revenues. The fund forgoes 60 cents for every gallon of fuel ethanol blended with gasoline. If the ethanol tax exemption were extended beyond 1993, and ethanol production reached 2.7 billion gallons, the cumulative Trust Fund revenues forgone would reach \$4 billion by 1995.

The Federal Government would accumulate savings through 1995 under an expanded ethanol industry. But beyond 1995, the net reductions in farm program outlays likely would be overwhelmed by the excise tax losses. By 1999, the total pre-1995 gains from reduced farm program outlays would likely be offset.

Ethanol Competitiveness With Oil Depends on Federal Tax Exemption

Ethanol's competitiveness with petroleum depends partly on how ethanol is used in blended fuels. As a fuel extender, it has a lower energy content than gasoline, and vehicles using it may have reduced mileage. But, ethanol added to gasoline increases octane and therefore competes with a variety of octane-enhancing blending agents that typically sell above the price of gasoline. Ethanol's competitive position further depends on the fuel distribution system, Federal and State subsidies, and environmental requirements.

Ethanol's competitiveness also depends on relative grain and crude oil prices. With \$2-per-bushel corn and the existing Federal subsidy, ethanol produced using average existing technology is competitive with crude oil at \$22-\$24 per barrel, compared with \$20 per barrel for the newest ethanol-producing technology. Further technological improvements within the next few years could make ethanol competitive at \$18 per barrel of crude oil with the existing Federal subsidy.

Without the subsidy and with state-of-the-art technology, crude oil prices would have to rise to at least \$40 per barrel to make ethanol competitive. [Sally Kane (202) 786-1405]

Statistical Indicators

Summary Data

Table 1.-Key Statistical Indicators of the Food & Fiber Sector

| | | | 987 | | | | 1988 | | |
|--|---|---|---|---|---|--|--|--|-----------------------------------|
| | 11 | 111 | tv. | Annual | 1 | 11 F | 111 F | IV F | Annual F |
| Prices received by farmers (1977=100) Livestock & products Crops | 128 149 106 | 128 150 105 | 129 144 113 | 127 146 106 | 130 148 112 | 132 150 114 | 128 146 110 | 129 146 111 | 130 147 112 |
| Prices Paid by Tarmers. (1977×100) Prod. items Commodities & Services. int., taxes, & wages | 147 162 | 148 164 | 150 165 | 147 162 | 152 165 | 155 168 | 153 169 | 153 168 | 153 168 |
| Cash receipts (% bil) 1/ Livestock (% bil) Crops (% bil) | 130 73 58 | 139 79 60 | 136 75 61 | 141 75 61 | 145 73 72 | 132 70 63 | 140 75 65 | 132 72 60 | 134-139 74-76 64-68 |
| Market basket (1982-84=100) Retmil cost Ferm Value Spread Fmrm value/retail cost (%) | 112 99 118 31 | 112 99 119 31 | 112 95 122 30 | 112 97 119 30 | 114 96 123 30 | | :: | | |
| Retail prices (1982-84*100) food At home Away-from home | 113 112 116 | 114 112 118 | 114 112 119 | 114 112 117 | 116 114 120 | 117 114 121 | 117 115 122 | 118 116 123 | 117 115 121 |
| Agricultural exports (\$ bil) 2/ Agricultural imports (\$ bil) 2/ | 6.5 5.3 | 6.9 | 8.5 5.2 | 27.9 20.6 | 9.4 5.8 | 8.0 | 7.6 5.0 | 9.0 | 33 . 21 . |
| Production: " Red meat (mil lb) Poultry (mil lb) Eggs (mil doz) Nilk (bil (b) | 9,240 4,932 1,438 37.4 | 9,624 5,195 1,439 35.5 | 10,096 5,112 1,479 34.7 | 38,442 19,772 5,797 142.5 | 9,665 4,986 1,463 36.1 | 9,643 5,285 1,405 38.0 | 9,630 5,410 1,415 36.0 | 9,668 5,200 1,465 34.9 | 38,606 20,881 5,763 145. |
| Consumption, per capita: Red meat and poultry (lb) | 52.5 | 53.7 | 56.7 | 214.8 | 54.1 | 54.9 | 55.2 | 56.0 | 220. |
| Corn beginning stocks (mil bu) 3/ Corn use (mil bu) 3/ | 8,248.2 1,916.5 | 6,332.2 | 4,881.7 2,177.9 | 4,881.7 7,409.8 | 9,768.5 2,137.6 | 7,631.5 | | | |
| Prices: 4/ Choice steersOmaha (\$/cwt) Barrows and gilts7 akts. (\$/cwt) Broilers12-city (cts/lb) EggsNY Gr. A (arge (cts/doz) Nilkali at plant (\$/cwt) | 68.60 56.18 48.2 58.9 12.07 | 65.04 58.97 48.7 63.5 12.30 | 64.31 43.51 42.5 59.2 12.83 | 64.60 51.69 47.4 61.6 12.51 | 68.28 44.74 45.4 55.0 12.23 | 73-74 46-47 53-54 53-54 11.40- | 65-69 45-49 49-53 60-64 11.50- | 66-72 42-48 44-50 63-69 12.00- | 68-71 44-47 48-51 58-61 |
| WheatKansas city MRW (\$/bu) CornChicago (\$/bu) SoybeansChicago (\$/bu) CottonAvg. spot mkt. (cts/lb) | 2.94 1.82 5.37 64.7 | 2.65 1.68 5.16 73.5 | 2.86 1.74 5.36 63.7 | 2.72 1.64 5.19 64.3 | 3.20 1.95 6.14 59.1 | 11.50 | 11.90 | 13.00 | 12. |
| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 P | 1988 |
| Gross cash income (\$ bil) Gross cash expenses (\$ bil) | 143.3 109.1 | 146.0 113.2 | 150.6 112.5 | 150.4 113.3 | 155.1 116.3 | 156.9 109.6 | 152.0 100.1 | 159 103 | 158-163 103-106 |
| Net cash income (\$ bil) Net farm income (\$ bil) | 34.2 16.1 | 32.8 26.9 | 38.1 23.5 | 37.1 12.7 | 38.8 32.0 | 47.3 32.3 | 52.0 37.5 | 56 46 | 53-59 42-48 |
| Farm real estate values (1977=100) 5/ | 145 | 158 | 157 | 148 | 146 | 128 | 112 | 103 | 106 |

^{1/} Quarterly data seasonally adjusted at annual rates. Z/ Annual data based on Oct.-Sept. fiscal years ending with year indicated.
3/ Dec.-Feb. first quarter; Mar.-May second quarter; June-Aug. third quarter; Sept.-Nov. fourth quarter; Sept.-Aug. annual. Use includes exports and domestic disappearance. 4/ Simple averages. 5/ Nominal values as of February 1. P = preliminary. F = forecast.

Table 2.-U.S. Gross National Product & Related Data

| rable 2.—0.5. Gross National Product | i o meiate | U Dala _ | | | | | | 4000 |
|---|--|--|--|--|--|--|--|--|
| | | Annual | | | 198 | 37 | | 1988 |
| | 1985 | 1986 | 1987 | 1 | 1 2 | 111 | IA | I R |
| | | \$ billi | on (quarter) | ly data sea | sonally adju | sted at an | nual rates) |) |
| Gross national product | 4,010.3 | 4,235.0 | 4,488.5 | 4,377.7 | 4,445.1 | 4,524.0 | 4,607.4 | 4,668.7 |
| Personal consumption expenditures Durable goods Nondurable goods Clothing & shoes Food & beverages Services | 2,629.4 368.7 913.1 157.2 472.8 1,347.5 | 2,799.8 402.4 939.4 167.5 497.8 1,458.0 | 2,967.8 413.7 982.9 177.0 515.8 1,571.2 | 2,893.8 396.1 969.9 174.0 514.8 1,527.7 | 2,943.7 409.0 982.1 175.8 515.0 1,552.6 | 3,011.3 436.8 986.4 178.7 514.0 1,588.1 | 3,022.6 413.0 993.1 179.6 519.3 1,616.5 | 3,071.9 426.4 998.8 178.9 523.9 1,646.8 |
| Gross private domestic investment Fixed investment Change in business inventories | 641.6 631.6 10.0 | 671.0 655.2 15.7 | 717.5 671.5 46.1 | 699.9 648.2 51.6 | 702.6 662.3 40.3 | 707.4 684.5 22.9 | 760.2 690.8 69.4 | 756.7 704.3 52.4 |
| Net exports of goods & services | -79.2 | -105.5 | -119.6 | -112.2 | -118.4 | -123.7 | -124.3 | -109.4 |
| Government purchases of goods & services | 818.6 | 869.7 | 922.8 | 896.2 | 917.1 | 929.0 | 948.8 | 949.5 |
| | | 1982 \$ bi | Llion (quar | terly data | seasonally - | adjusted at | annual ra | tes) |
| Gross national product | 3,607.5 | 3,713.3 | 3,821.0 | 3,772.2 | 3,795.3 | 3,835.9 | 3,880.8 | 3,918.0 |
| Personal consumption expenditures Durable goods Nondurable goods Clothing & shoes Food & beverages Services | 2,352.6 352.7 849.5 147.9 436.5 1,150.4 | 2,450.5 383.5 877.2 158.0 444.9 1,189.8 | 2,497.2 388.2 878.1 159.5 441.2 1,230.9 | 2,475.9 375.9 883.2 160.4 447.5 1,216.9 | 2,487.5 385.4 879.0 157.3 441.6 1,223.1 | 2,520.7 406.9 875.7 161.7 437.1 1,238.1 | 2,504.6 384.5 874.6 158.6 438.6 1,245.6 | 2,530.9 396.7 878.4 158.1 441.7 1,255.7 |
| Gross private domestic investment Fixed investment Change in business inventories | 636.1 628.7 7.4 | 654.0 640.2 13.8 | 687.6 644.7 42.9 | 671.8 624.2 47.6 | 673.7 634.7 39.0 | 681.9 657.3 24.6 | 723.1 662.6 60.5 | 735.7 680.3 55.4 |
| Net exports of goods & services Government purchases of goods & services | -108.2 726.9 | -145.8 754.5 | -135.5 771.7 | -135.2 759.6 | - 132.7 766.7 | -138.4 771.7 | -135.8 788.9 | -119.1 770.5 |
| GNP implicit price deflator % change | 3.2 | 2.6 | 3.0 | 4.2 | 3.5 | 2.8 | 2.7 | 1.7 |
| Disposable personal income (\$ bil) Disposable per. income (1982 \$ bil) Per capita disposable per. income (\$) Per capita dis. per. income (1982 \$) | 2,841.1 2,542.2 11,872 10,622 | 3,022.1 2,645.1 12,508 10,947 | 3,181.7 2,677.2 13,050 10,980 | 3,125.9 2,674.6 12,865 11,008 | 3,130.6 2,645.5 12,858 10,865 | 3,195.3 2,674.7 13,090 10,958 | 3,275.0 2,713.8 13,384 11,090 | 3,325.5 2,739.8 13,557 11,169 |
| U.S. population, total, incl. military abroad (mil) Civilian population (mil) | / 10/ 1 | 241.6 239.4 | 243.9 241.7 | 243.1 240.8 | 243.6 241.4 | 244.2 242.0 | 244.8 242.6 | 245.4 243.1 |
| | | Annual | | 1987 | | 19 | 88 | |
| | 1985 | 1986 | 1987 | Apr | Jan | Feb | Mar | Apr |
| | | | Mont | hly data se | easonally ac | j us t ed | | |
| Industrial production (1977=100) Leading economic indicators (1967=100) Civilian employment (mil. persons) Civilian unemployment rate (%) | 123.7 168.6 107.2 7.2 | 125.1 179.3 109.6 7.0 | 129.8 189.9 112.4 6.2 | 127.4 187.6 111.8 6.3 | 134.4 188.7 114.1 5.8 | 134.4 191.5 114.4 5.7 | 134.7 191.9 114.1 5.6 | 135.6 192.2 114.7 5.4 |
| Personal income (\$ bil annual rate) Money stock-M2 (daily avg) (\$bil) 1/ Three-month Treasury bill rate (%) Aaa corporate bond yield (Moody's) (%) | 3,327.0 2,562.6 7.48 11.37 | 3,534.3 2,807.8 5.98 9.02 | 3,746.5 2,901.0 5.82 9.38 | 3,701.9 2,847.4 5.76 8.85 | 3,872.1 2,924.9 5.90 9.88 | 3,895.7 2,946.1 5.69 9.40 | 3,939.2 2,967.8 5.69 9.39 | 9.67 |
| Housing starts (thou) 2/ Auto sales at retail, total (mil) Business inventory/sales ratio | 1,742 11.0 1.55 | 1,805 11.4 1.54 | 1,621 10.3 1.51 | 1,635 10.5 1.51 | 1,382 10.4 1.54 | 1,519 11.0 153 | 1,554 10.7 150 | 1,561 10.5 NA |
| Sales of all retail stores (\$ bil) Nondurable goods stores (\$ bil) Food stores (\$ bil) Eating & drinking places (\$ bil) Apparel & accessory stores (\$ bil) | 115.0 71.8 23.7 11.1 6.2 | 121.2 73.9 24.6 12.1 6.7 | 125.5 76.9 25.3 12.7 7.1 | 124.8 78.7 26.1 12.2 6.5 | 128.8 80.1 26.2 12.5 6.5 | 130.1 80.4 26.6 12.6 6.5 | 132.4 81.8 27.0 12.7 6.7 | P 81.3 P 26.9 P 12.5 |
| | | | | | | | | 118 |

^{1/} Annual data as of December of the year listed. 2/ Private, including farm. R = revised. P = preliminary. NA = not available.

Information contact: James Mailey (202) 786-1782.

Table 3. - Foreign Economic Growth, Inflation, & Export Earnings

| | Average 1970-74 | Average 1975-79 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 P | 1 98 8 F | 1989 F |
|--|---------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|---------------------|----------------------|-----------------------|---------------------|---------------------|---------------------|
| | | | | | Ani | nual per | cent cha | ngê | | | | |
| Total foreign Real GNP CPI Export earnings Developed less U.S. | 5.5 10.2 27.5 | 3.7 14.0 14.6 | 2.6 16.9 22.2 | 1.6 15.6 -2.7 | 1.7 14.4 -7.0 | 2.0 18.4 -2.6 | 3.2 22.5 5.7 | 3.0 21.6 1.6 | 2.7 11.4 12.1 | 2.9 16.6 16.9 | 2.7 25.2 10.4 | 2.8 19.0 8.4 |
| Real GNP CPI Export earnings Centrally planned | 4.8 8.4 23.9 | 3.1 9.4 14.9 | 2.4 10.9 17.0 | 1.4 9.6 -3.3 | 1.1 8.0 -4.3 | 1.9 6.0 -0.5 | 3.4 5.1 6.3 | 3.3 4.7 4.6 | 2.4 2.7 19.4 | 2.8 2.6 17.5 | 2.4 2.8 10.9 | 2.2 3.3 8.1 |
| Real GNP Export earnings Latin America | 5.1 19.4 | 3.5 16.1 | 1.5 16.5 | 2.1 3.4 | 2.7 6.0 | 3.4 8.2 | 3.7 1.5 | 2.9 -5.1 | 3.9 7.3 | 3.5 6.7 | 3.8 | 3.7 8.0 |
| Real GNP CPI Export earnings Africa & Middle East | 7.4 23.5 28.1 | 5.1 53.7 12.8 | 5.3 61.3 30.1 | 0.7 64.9 5.3 | ·0.5 72.6 ·10.0 | -2.7 126.2 -1.0 | 3.3 174.1 6.7 | 3.6 179.4 -6.0 | 3.7 86.1 -13.9 | 2.3 139.1 8.7 | 1.2 231.5 5.2 | 2.3 160.9 6.5 |
| Real GNP CPI Export earnings Asia | 8.9 8.7 49.6 | 6.4 16.4 43.2 | 1.3 24.6 37.9 | 0.0 17.3 -9.2 | 1.4 12.9 -19.7 | 0.1 16.7 -17.6 | 1.1 19.4 -7.2 | 0.0 11.2 -7.8 | -1.2 12.0 -12.5 | 0.1 14.9 9.9 | 1.7 12.7 10.3 | 3.2 11.9 7.6 |
| Real GMP CP1 Export earnings | 6.0 13.0 30.1 | 6.8 8.4 19.4 | 6.3 16.4 27.8 | 6.6 14.1 6.8 | 3.6 7.3 -0.3 | 6.6 7.7 3.4 | 5.4 8.5 13.7 | 4.0 5.2 -1.2 | 5.8 4.4 6.0 | 6.0 5.7 21.2 | 5.2 6.1 13.3 | 5.3 6.8 11.8 |

P = preliminary. F = forecast.

Information contact: Timothy Baxter (202) 786-1790.

Farm Prices

Table 4. - Indexes of Prices Received & Paid by Farmers, U.S. Average

| | • | | | - | | | | _ | | |
|---|--|---|---|---|---|---|--|--|---|--|
| | | Annual | | 19 | 987 | | | 1988 | | |
| | 1985 | 1986 | 1987 | Hay | Dec | Jan | Feb | Маг | Apr R | May P |
| | | | | | ≂ 19 | 77=100 | | | | |
| Prices received All farm products All crops Fond grains Feed grains & hay Feed grains Cotton Tobacco Oli-bearing crops Fruit, all Fresh market 1/ Commercial vegetables Fresh market Potatoes & dry beans Livestock & products Meat animals Dairy products Poultry & eggs Prices paid Commodities & services, | 128 120 133 122 122 123 153 180 192 122 124 136 142 139 | 123 107 109 98 96 91 138 177 169 177 130 123 113 145 129 128 | 127 106 102 85 81 98 130 79 181 194 147 127 126 163 | 128 108 105 92 85 99 126 81 169 177 130 171 148 169 124 | 127 113 114 92 89 106 137 86 170 178 177 195 89 141 157 | 131 115 116 93 90 100 134 87 170 178 129 223 93 147 166 129 | 130 109 120 96 93 94 134 89 166 174 129 127 94 172 127 | 130 110 118 97 94 136 170 136 136 102 171 123 | 130 111 119 100 95 98 126 156 168 168 163 131 105 172 119 98 | 134 116 120 102 95 126 102 196 207 116 109 114 152 178 117 |
| interest, taxes, & wage rates Production items Feed Feeder livestock Seed Fertilizer Agricultural chemicals Fuels & energy Farm & motor supplies Autos & trucks Tractora & saif-propelled machinery Other machinery Building & femcing Farm services & cash rent Interest payable par acre on farm real estate debt Faxes payable per acre on farm real estate Wage rates (seasonally adjusted) Production items, interest, taxes, & wage rates | 163 1516 154 155 128 128 143 1793 1793 1736 1737 1737 1737 1737 | 159 144 108 153 148 127 162 144 198 174 184 136 219 136 150 | 162 147 179 148 124 161 144 208 174 185 137 146 137 136 137 | | | 165 152 112 193 149 121 123 161 144 213 176 188 138 150 138 138 150 | | | 168 155 198 150 128 166 215 200 138 150 138 150 138 153 158 | |
| Ratio, prices received to prices paid 2/ Prices received (1910-14-100) Prices paid, etc. (Parity index) (1910-14-100) Parity ratio (1910-14-100) 2/ | 79 585 1,120 52 | 77 561 1,096 51 | 78 578 1,115 52 | 79 586 | 77 582 51 | 79 599 1, 138 53 | 79 592 | 79 593 | 77 594 1,154 51 | 80 613 |

^{1/} Fresh market for noncitrus; fresh market and processing for citrus. 2/ Ratio of index of prices received for all farm products to index of prices paid for commodities and services, interest, taxes, and wage rates. Ratio derived using the most recent prices paid index. Prices paid data will be published in January, April, July, and October. R = revised. P = preliminary.

Information contact: Mational Agricultural Statistics Service (202) 447-5446.

Table 5.—Prices Received by Farmers, U.S. Average

| | | Annual 1, | 1 | 1 | 987 | | | 1988 | | |
|--|--|--|--|---|--|--|--|---|---|---|
| | 1985 | 1986 | 1987 | May | Dec | Jan | Feb | Mar | Apr R | May P |
| Crops All wheat (\$/bu) Rice, rough (\$/cwt) Corn (\$/bu) Sorghum (\$/cwt) | 3.20 7.85 2.49 3.97 | 2.71 5.04 1.96 3.11 | 2.55 4.49 1.56 2.56 | 2.66 3.71 1.66 2.69 | 2.70 7.37 1.72 2.73 | 2.75 7.70 1.77 2.75 | 2.79 8.97 1.83 2.88 | 2.74 8.79 1.86 2.92 | 2.79 8.33 1.88 2.94 | 2.83 8.27 1.89 2.87 |
| All hay, baled (\$/ton) Soybeans (\$/bu) Cotton, Upland (cts/lb) | 69.90 5.42 56.1 | 61.60 5.00 54.8 | 63.00 5.07 59.4 | 73.40 5.20 60.0 | 65.00 5.63 64.2 | 62.80 5.73 60.6 | 65.50 5.97 56.8 | 66.20 6.06 57.7 | 72.90 6.40 59.4 | 80.90 6.98 56.4 |
| Potatoes (\$/cwt) Lettuce (\$/cwt) Tomatoes (\$/cwt) Onions (\$/cwt) Ory edible beans (\$/cwt) | 3.92 10.90 24.10 9.08 17.60 | 5.03 11.90 25.10 10.90 19.01 | 4.47 14.80 25.10 11.40 15.50 | 7.23 8.07 28.00 22.50 19.00 | 3.57 34.80 22.60 10.10 13.10 | 3.75 35.60 31.50 15.30 13.40 | 3.73 11.10 19.40 13.80 14.40 | 4.00 13.80 28.60 12.50 16.30 | 4.09 9.33 29.90 15.10 16.90 | 4.48 8.28 22.40 8.50 18.20 |
| Apples for fresh use (cts/lb) Pears for fresh use (\$/ton) Oranges, all uses (\$/box) 2/ Grapefruit, all uses (\$/box) 2/ | 17.3 349.00 7.41 4.01 | 19.1 372.00 4.42 4.29 | 217.00 4.55 5.00 | 22.4 337.00 5.62 4.94 | 11.8 147.00 5.45 5.84 | 11.5 135.00 6.19 5.34 | 12.8 193.00 6.24 5.25 | 12.8 219.00 5.99 4.86 | 11.1 229.00 6.42 4.50 | 10.8 340.00 7.87 3.96 |
| Livestock Beef cattle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambs (\$/cwt) All milk, sold to plants (\$/cwt) Milk, manuf. grade (\$/cwt) Broilers (cts/lb) Eggs (cts/doz) 3/ Turkeys (cts/lb) Wool (cts/lb) | 54.00 62.40 43.90 68.10 12.70 11.78 30.1 57.4 47.2 63.3 | 52.80 60.90 50.10 69.10 12.50 11.55 34.5 61.2 44.4 66.8 | 61.40 78.10 50.90 77.90 12.50 11.40 28.5 53.8 34.2 91.7 | 63.00 77.40 54.40 90.10 12.00 11.10 29.9 49.3 35.5 106.0 | 62.20 83.10 40.30 72.80 12.70 11.60 24.6 48.6 38.1 86.2 | 65.40 86.20 43.00 80.70 12.50 11.30 27.1 49.3 31.8 75.2 | 67-40 92.60 45.80 80.40 12.30 11.00 25.7 46.9 29.0 93.3 | 68.30 93.50 42.20 80.20 11.90 10.70 27.5 28.2 118.0 | 69.00 93.20 41.90 74.80 11.60 10.60 28.0 28.5 28.4 153.0 | 70.00 91.90 46.90 77.00 11.40 10.50 33.5 43.1 29.7 165.0 |

^{1/} Calendar year averages, except for potatoes, dry edible beans, apples, oranges, and grapefruit, which are crop years. 2/ Equivalent on-tree returns. 3/ Average of all eggs sold by producers including hatching eggs and eggs sold at retail. 4/ Average local market price, excluding incentive payments. R = revised. P = preliminary. NA = not available.

Producer and Consumer Prices

Table 6. - Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

| | Annual | | | 1987 | | | | | | |
|--|---|--|--|---|---|--|--|---|---|--|
| | 1987 | Арг | Sept | Oct | Nov 1982-8 | Dec 4=100 | Jan | Feb | Mar | Арг |
| Consumer price index, all items Consumer price index; less food | 113.6 113.6 | 112.7 112.7 | 115.0 115.1 | 115.3 115.5 | 115.4 115.7 | 115.4 115.5 | 115.7 115.7 | 116.0 116.0 | 116.5 116.6 | 117.1 117.2 |
| All food Food away from home Food at home Meats 1/ Beef & veal Pork Poultry Fish Eggs Dairy products 2/ Fats & oils 3/ Fresh fruit Processed fruit Fresh vegetables Potatoes Processed vegetables Cereals & bakery products Sugar & sweets Beverages, nonalcoholic | 113.5 117.0 111.9 109.6 115.9 112.6 129.9 91.5 105.1 132.0 110.6 121.6 116.0 107.1 | 112.8 116.1 111.3 106.9 111.3 113.4 91.1 105.0 114.2 109.6 123.7 116.2 106.4 114.7 108.5 | 114.1 118.0 112.4 112.0 107.4 121.1 112.5 132.0 97.6 106.8 131.7 112.1 114.6 110.5 107.6 | 114.3 118.3 112.4 111.8 119.0 111.8 119.0 111.8 131.4 91.4 106.9 107.5 112.5 111.5 111.5 111.5 111.6 111.6 | 114.2 118.6 112.1 111.1 108.6 115.5 107.9 132.3 93.9 108.0 125.8 111.6 107.2 110.6 111.2 110.6 | 114.7 118.9 110.4 108.5 113.1 107.7 126.3 116.7 126.3 117.3 116.8 107.3 111.0 104.8 | 115.7 119.3 114.1 110.1 1107.7 113.4 108.9 137.2 90.1 107.4 108.5 130.7 115.7 1143.9 104.6 107.2 118.1 112.2 106.9 | 115.7 119.7 113.9 110.2 108.5 112.3 108.4 137.0 85.5 107.3 109.5 132.6 1133.7 106.2 107.7 | 115.9 120.2 113.9 110.9 109.8 112.6 109.1 136.0 87.9 107.2 110.3 133.8 119.4 125.6 108.5 108.5 108.5 107.7 | 116.6 120.7 114.8 110.5 1110.5 1110.2 139.3 85.0 107.1 110.3 139.9 127.5 111.2 109.8 112.3 |
| Apparet commodities less footwear Footwear Tobacco & smoking products Beverages, alcoholic | 109.6 105.1 133.6 114.1 | 110.8 105.8 131.6 113.3 | 112.9 105.7 135.9 114.9 | 115.2 107.3 136.3 115.2 | 115.0 108.0 136.5 115.4 | 111:7 107.2 137.0 115.4 | 109.0 106.1 140.8 115.8 | 108.8 105.8 142.2 116.8 | 113.7 107.3 142.8 117.4 | 116.6 109.4 142.9 118.0 |

^{1/} Beef, yeal, lamb, pork, and processed meat. 2/ Includes butter. 3/ Excludes butter.

Information contact: National Agricultural Statistics Service (202) 447-5446.

Information Contact: Ralph Parlett (202) 786-1870.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

| | | Annual | | | 1987 | | | 1988 | | | |
|---|--|--|--|---|---|---|--|--|---|---|--|
| | 1985 | 1986 | 1987 P | Apr | Kov | Dec R | Jan | Feb | Маг | Apr | |
| | | | | | 1982=1 | 00 | | | | · | |
| Finished goods 1/ | 104.7 | 103.2 | 105.4 | 105.1 | 106.3 | 105.8 | 106.2 | 105.9 | 106.2 | 106.9 | |
| Presh & Oried vegetables Dried fruit Canned fruit & juice Frozen fruit & juice Fresh veg. excl. potatoes Canned veg. & juices Frozen vegetables Potatoes Eggs Bakery products Meats Reef & weal | 104.6 108.1 99.4 88.7 113.8 118.5 100.3 101.9 106.5 101.2 95.6 113.9 90.9 89.1 110.4 114.6 100.2 107.9 123.9 | 107.2 112.9 97.8 91.9 111.0 103.0 99.5 106.6 104.0 99.5 116.6 93.9 88.1 99.9 116.7 124.9 104.9 | 109.5 111.4 103.8 95.0 115.4 113.4 99.0 103.5 107.3 120.5 87.6 118.5 100.3 95.4 104.7 103.5 141.9 101.7 | 109.2 106.6 104.9 94.0 113.1 111.6 102.2 104.6 107.8 121.9 90.1 117.1 100.0 97.8 100.9 106.6 134.8 101.2 108.3 102.2 | 109.8 123.4 125.7 98.0 116.5 117.0 135.4 102.3 106.6 108.1 92.4 96.1 92.4 95.8 98.4 145.4 102.0 108.8 106.3 | 108.9 121.2 109.0 99.0 117.2 124.4 112.0 102.6 106.7 110.9 70.6 121.4 93.7 92.9 87.5 96.7 156.3 101.7 110.1 | 110.6 106.6 126.3 99.1 119.1 126.0 135.9 106.8 107.5 76.5 78.0 98.1 97.3 98.2 159.2 159.2 | 109.4 104.2 96.4 97.8 119.4 130.2 96.8 103.5 100.2 73.8 122.8 97.6 96.3 95.7 93.8 158.2 101.5 111.5 | 110.0 104.2 96.3 97.8 119.5 131.1 94.2 103.6 108.0 79.7 123.1 98.4 100.9 98.7 160.1 110.9 114.7 | 110-2 102-7 98-4 97-9 119-7 130-1 98-5 106-7 97-6 66-7 123-5 98-6 101-0 100-6 159-1 99-9 111-6 117-5 | |
| Consumer finished goods less foods Beverages, alcoholic Soft drinks Apparel Footwear Tobacco products | 103.3 107.6 107.7 105.0 104.7 132.5 | 98.5 110.1 109.5 106.3 106.8 142.4 | 100.7 110.4 111.9 108.4 109.4 154.7 | 100.3 111.5 111.8 107.8 108.2 150.9 | 101.9 110.1 112.8 109.3 110.6 157.6 | 101.6 110.3 112.8 109.9 111.4 163.3 | 101.3 110.4 112.9 110.1 112.7 166.3 | 101.3 111.3 113.3 110.4 114.2 166.5 | 101.4 112.2 113.9 110.7 114.3 166.5 | 102.5 112.1 114.1 110.9 114.4 166.5 | |
| Intermediate materials 2/ Materials for food manufacturing Flour Refined sugar 3/ Crude vegetable oils | 102.6 101.4 99.8 102.8 137.5 | 99.1 98.4 94.5 103.2 84.8 | 101.5 100.8 92.9 106.5 84.0 | 100.2 100.1 92.9 106.5 80.6 | 103.4 100.6 93.3 107.1 91.6 | 103.6 99.8 93.3 106.5 92.9 | 104.2 102.0 94.3 106.5 105.0 | 104.1 101.9 97.5 106.7 105.9 | 104.6 101.7 94.1 106.7 101.2 | 105.5 102.8 96.8 107.4 109.9 | |
| Livestock | 95.8 94.8 102.6 96.1 89.1 117.8 97.4 93.6 94.4 101.2 104.6 | 87.7 93.2 103.9 79.2 91.8 129.6 88.3 90.9 91.4 89.7 104.9 | 93.7 96.2 106.6 71.1 101.2 106.5 91.9 99.3 85.8 110.3 | 92.4 96.9 105.1 71.0 104.3 105.3 98.4 90.7 96.4 84.6 110.3 | 94.7 95.3 124.1 74.9 96.8 93.9 105.1 93.1 100.7 88.5 110.1 | 94.4 95.9 113.8 78.9 98.1 87.7 100.5 91.5 106.5 88.5 109.7 | 93.4 95.9 117.0 77.5 98.7 96.6 100.7 110.0 87.2 109.7 | 94.6 99.6 99.3 83.5 105.0 86.9 97.8 89.1 111.1 87.2 | 94.1 99.7 99.3 80.6 105.7 96.9 103.2 86.7 112.6 87.2 | 95.7 101.2 99.8 82.3 107.1 97.6 103.6 86.7 121.5 87.2 111.9 | |
| All commodities | 103.1 | 100.1 | 102.8 | 101.9 | 104.2 | 104.2 | 104.5 | 104.6 | 104.9 | 105.8 | |
| Industrial commodities | 103.7 | 99.9 | 102.6 | 101.6 | 104.2 | 104.2 | 104.3 | 104.4 | 104.7 | 105.6 | |
| Farm products & | 103.9 | 105.5 | 107.8 | 107.4 | 108.4 | 107.3 | 109.3 | 108.1 | 108.6 | 108.9 | |
| processed foods & foods | 100.6 95.1 103.5 110.2 107.9 107.7 | 101.2 92.9 105.4 111.0 109.6 114.5 | 103.7 95.4 107.9 112.6 112.7 112.5 | 103.3 95.7 107.2 111.4 111.9 113.3 | 104.1 96.3 108.1 115.3 113.5 112.0 | 104.0 95.7 108.2 116.7 113.0 112.2 | 105.3 96.8 109.5 118.5 112.8 112.4 | 105.2 97.5 109.2 119.6 112.9 112.9 | 105.7 97.7 109.7 119.6 113.2 113.8 | 106.5 99.0 110.3 120.2 113.3 114.2 | |

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types and sizes of refined sugar. 4/ Products entering market for the first time which have not been manufactured at that point. 5/ Fresh and dried. 6/ Includes all raw, intermediate, and processed foods (excludes soft drinks, alcoholic beverages, and manufactured animal feeds). P = preliminary. R = revised.

Information contact: Bureau of Labor Statistics (202) 523-1913.

Table 8.-Farm-Retail Price Spreads

| | | Ann | ı, a l | | | 1987 | | | 15 | 88 | |
|---|--|---|---|---|--|--|--|---|---|---|--|
| | 1984 | 1985 | 1986 | 1987 | APF | Nov | 0 ec | Jan | Feb | Каг | Арг |
| Market basket 1/ Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) | 102.9 103.5 102.6 35.2 | 104.1 96.2 108.3 32.4 | 106.3 94.9 112.5 31.2 | 111.6 97.1 119.4 30.5 | 110.8 97.4 118.1 30.8 | 112.0 95.8 120.8 30.0 | 112.7 94.1 122.6 29.2 | 113.9 95.8 123.6 29.4 | 113.5 96.1 122.8 29.7 | 113.5 96.4 122.7 29.8 | 114.2 96.6 123.7 29.6 |
| Meat products Retall cost (1982-84=100) Farm value (1982-84=100) Farm-retall spread (1982-84=100) Farm value-retail cost (%) | 99.8 99.4 100.3 50.4 | 98.9 91.3 106.7 46.8 | 102.0 94.3 109.8 46.8 | 109.6 101.2 118.3 46.7 | 106.9 100.8 113.2 47.7 | 111.1 95.3 127.3 43.4 | 110.4 93.1 128.1 42.7 | 110.1 93.3 127.4 42.9 | 110.2 99.4 121.3 45.7 | 110.9 100.2 121.9 45.8 | 110.8 102.0 119.9 46.6 |
| Dairy products Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) | 101.3 99.2 103.2 47.0 | 103.2 95.2 110.5 44.2 | 103.3 92.6 113.3 43.0 | 105.9 93.3 117.5 42.3 | 105.3 92.5 117.1 42.1 | 106.9 93.8 119.0 42.1 | 106.7 92.5 119.8 41.6 | 107.4 92.4 121.3 41.3 | 107.3 90.6 122.7 40.5 | 107.2 89.3 123.7 40.0 | 107.1 68.2 124.5 39.5 |
| Poultry Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) | 107.3 112.6 101.1 56.2 | 106.2 105.9 106.6 53.3 | 114.2 115.1 113.3 53.9 | 112.6 93.8 134.2 44.6 | 113.4 97.8 131.3 46.2 | 107.9 87.0 131.0 43.6 | 107.8 85.1 133.9 42.2 | 108.9 68.8 132.0 43.6 | 108.4 83.6 137.0 41.3 | 109.1 88.2 133.1 43.3 | 110.2 89.7 133.9 43.5 |
| E99s Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) | 109.1 110.1 107.4 64.8 | 91.0 85.7 100.4 60.5 | 97.2 92.4 106.0 61.0 | 91.5 76.8 117.9 53.9 | 91.1 79.9 111.2 56.4 | 93.9 80.6 117.8 55.1 | 85.5 66.7 119.2 50.2 | 90.1 68.2 129.3 48.7 | 85.5 64.6 123.1 48.5 | 87.9 70.6 118.7 51.7 | 85.0 61.9 126.5 46.8 |
| Cereat & bakery products Retail cost (1982-86=100) Farm value (1982-86=100) Farm-retail spread (1982-84=100) Farm-value-retail cost (%) | 103.9 102.9 104.1 12.1 | 107.9 94.3 109.8 10.7 | 110.9 76.3 115.7 8.4 | 114.8 71.0 120.9 7.6 | 114.3 71.1 120.3 7.6 | 116.2 77.7 121.6 8.2 | 116.8 76.4 122.4 8.0 | 118.1 98.2 120.9 10.2 | 118.7 105.6 120.5 10.9 | 118.9 102.1 121.2 10.5 | 119.B 101.3 122.4 10.4 |
| Fresh fruits Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) | 106.6 113.7 103.3 33.7 | 118.4 110.8 121.8 29.6 | 120.4 103.8 128.0 27.4 | 135.6 113.9 145.7 26.5 | 137.5 95.7 156.8 22.0 | 129.5 127.3 130.5 31.1 | 128.5 130.8 127.4 32.2 | 133.6 110.6 144.2 26.2 | 133.7 104.4 147.2 24.7 | 135.2 102.2 150.5 23.9 | 141.8 89.8 165.8 20.0 |
| Fresh vegetables Retail rosis (1982-84=100) Farm valum (1982-84=100) Farm ratail spread (1982-84=100) Farm valum-retail cost (%) | 108.2 108.3 108.2 34.0 | 103.5 93.1 108.9 30.5 | 107.7 90.0 116.8 28.4 | 121.6 112.0 126.5 31.3 | 123.7 123.1 124.0 33.8 | 121.2 131.8 115.8 36.9 | 140.2 113.8 153.8 27.6 | 143.9 122.7 154.9 28.9 | 133.7 100.4 150.8 25.5 | 125.6 97.4 140.1 26.3 | 127.5 104.2 139.5 27.7 |
| Processed fruits & vegetables Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail costs (%) | 104.3 106.8 103.4 24.4 | 107.0 117.7 103.7 26.2 | 105.3 101.5 106.4 22.9 | 109.0 111.1 108.3 24.2 | 108.1 112.7 106.7 24.8 | 109.6 105.8 110.8 23.0 | 110.0 127.4 104.6 27.5 | 111.6 130.0 105.8 27.7 | 113.4 132.0 107.6 27.7 | 114.3 131.3 109.0 27.3 | 116.0 133.6 110.5 27.4 |
| Fats & oits Retail cost (1982-84=100) Farm value (1982-84=100) Farm retail spread (1982-84=100) Farm value-retail cost (%) | 106.6 124.3 100.2 31.3 | 108.9 104.3 110.6 25.8 | 106.5 76.2 117.6 19.2 | 108.1 74.1 120.6 18.4 | 108.0 72.1 121.2 18.0 | 108.0 75.3 120.0 18.8 | 107.7 78.9 118.3 19.7 | 108.5 93.5 114.0 23.2 | 109.5 92.4 116.2 22.4 | 110.3 93.0 116.7 22.7 | 110.3 95.2 115.8 23.2 |
| | | An | nusl | | | 1987 | | | | 1988 | |
| | 1984 | 1985 | 1986 | 1987 | Apr | Nov | Dec | Jan | Feb | Har | Apr |
| Reef, Choice Retail price 2/ (cta/lb) Net carcass value 3/ (cta) Net farm value 4/ (cts) Farm-retail spread (cts) Carcass-retail spread 5/ (cts) Farm-carcass spread 6/ (cts) Farm value-retail price (%) | 239.6 147.6 140.0 99.6 92.0 7.6 58 | 232.6 135.2 126.8 105.8 97.4 8.4 | 230.7 133.1 124.4 106.3 97.6 6.7 54 | 242.5 145.3 137.9 104.6 97.2 7.4 57 | 236.8 150.9 143.7 93.1 85.9 7.2 61 | 246.6 142.4 136.1 110.5 104.2 6.3 | 245.3 141.1 134.6 110.7 104.2 6.5 55 | 242.9 144.7 136.6 106.3 98.2 8.1 | 246.3 148.3 143.2 103.1 98.0 5.1 | 248.5 154.0 148.6 99.5 94.5 60 | 250.2 156.7 152.4 97.7 93.4 4.3 61 |
| Pork Retail price 2/ (cts/lb) Wholesale value 3/ (cts) | 162.0 110.1 | 162.0 101.1 | 178.4 110.9 | 188.4 113.0 | 178.9 108.4 | 189.2 103.1 | 185.6 106.5 | 185 .3 104 .0 | 163.1 | 183.3 103.5 | 182.9 |
| wet farm value 4/ (cts) farm-retail spread (cts) wholesale-retail spread 5/ (cts) farm-wholesale spread 6/ (cts) Farm-wholesale spread 6/ (cts) Farm-value-retail price (%) | 77.4 84.6 51.9 32.7 48 | 71.4 90.6 60.9 29.7 | 82.4 96.0 67.5 28.5 46 | 82.7 105.7 75.4 30.3 | 82.7 96.2 70.5 25.7 | 65.0 124.2 86.1 38.1 34 | 66.2 119.4 79.1 40.3 36 | 71.3 114.0 81.3 32.7 38 | 75.5 107.6 77.8 29.8 41 | 68.6 114.7 79.8 34.9 37 | 67.2 115.7 80.4 35.3 |

1/ Retail costs are based on indexes of retait prices for domestically produced farm foods from the CPI-U published monthly by the gureau of Labor Statistics. The farm value is the payment to farmers for quantity of farm product equivalent to retail unit, less allowance for byproduct. Farm values are based on prices at first point of sale and may include marketing charges such as grading allowance for byproduct. Farm values are based on prices at first point of sale and may include marketing charges such as grading and packing for some commodities. The farm-retail spraed, the difference between the retail price and the farm value, represents charges for assembling processing, transporting, and distributing these foods. 2/ Estimated weighted average price of retail cuts charges for assembling processing, transporting and distributing these foods. 3/ Value of carcass quantity (beef) and wholesale from pork and choice yield grade 3 beef carcasses. Retail cut prices from BLS. 3/ Value of carcass quantity (beef) and wholesale from pork and choice yield grade 3 beef carcasses. Retail cut prices from BLS. 3/ Value of carcass quantity (beef) and wholesale from pork and choice yield grade 3 beef carcasses. Retail cut prices from BLS. 3/ Value of carcass quantity (beef) and wholesale from pork and to accommodute to 1 b. of retail cuts who accommodute of byproducts. 5/ Represents charges for retailing and other marketing services such as fabricating, wholesaling, and in-city transportation. 6/ Represents charges made for livestock marketing, processing, and transportation to city where consumed.

Note: Annual historical data on farm-retail price spreads may be found in Food Cost Review, 1986. AER No. 574, ERS, USDA.

Information Contacts: Denis Dunham (202) 786-1870; Ron Gustefson (202) 786-1286.

Table 9.-Price Indexes of Food Marketing Costs

(See the June 1988 issue.)

Information contact: Denis Dunham . (202) 786-1870

Table 10.-U.S. Meat Supply & Use

| | | Pro- duc- | | | | | | | vilian sumption | |
|--|---|--|----------------------------------|---|----------------------------------|--------------------------|----------------------------------|--|--|---------------------------------------|
| 1 tem | Beg. stocks | tion 1/ | Im- ports | Total supply | Ex- ports | Ship- ments | Ending stocks | Total | Per capita 2/ | Primary market price 3/ |
| | | | | Mi | llion pound | s 4/ | | | Pounds | |
| Beef 1985 1986 1987 1988 F | 4 72 420 412 386 | 23,728 24,371 23,566 22,907 | 2,071 2,129 2,269 2,300 | 26,271 26,919 26,243 25,593 | 328 521 604 530 | 51 52 52 60 | 420 412 386 435 | 25,4 73 25,935 25,201 24,568 | 78.8 78.4 75. 5 72. 9 | 58.37 57.75 64.60 66-72 |
| Pork 1985 1 986 1987 1988 F | 348 289 248 347 | 14,807 14,063 14,374 15,199 | 1,128 1,122 1,195 1,300 | 16,283 15,474 15,817 16,847 | 128 86 109 140 | 131 132 124 120 | 289 248 347 330 | 15,734 15,008 15,237 16,256 | 61.9 58.6 59.2 62.1 | 44.77 51.19 51.69 42-48 |
| Veal 1985 1986 1987 1988 F | 14 11 7 4 | 515 524 429 410 | 20 27 24 27 | 549 562 460 441 | 4 5 7 5 | 1 1 1 | .11 7 4 5 | 533 549 448 430 | 1.8 1.9 1.5 1.4 | 62.42 60.89 78.05 86-92 |
| lamb and mutton 1985 1986 1987 1988 F | 7 13 13 8 | 358 338 315 332 | 36 41 44 53 | 401 392 372 3 93 | 2. 1 2 | 2 2 2 1 | 13 13 8 9 | 385 3 7 5 360 381 | 1.4 1.4 1.3 1.4 | 68.61 70.26 78.08 72-78 |
| Total red meat 1985 1986 1987 1988 F | 841 733 680 745 | 39,408 39,296 38,684 38,848 | 3,255 3,319 3,533 3,680 | 43,504 43,349 42,897 43,274 | 461 613 722 657 | 185 187 179 202 | 733 679 745 779 | 42,125 41,868 41,251 41,635 | 144.0 140.2 137.5 137.8 | NA NA NA NA |
| Broiters 1985 1986 1987 1988 F | 20 27 24 25 | 13, 762 14, 316 15, 594 16, 371 | 0 0 | 13,781 14,342 15,618 16,396 | 417 566 7 52 770 | 143 149 151 140 | 27 24 25 25 | 13, 195 13, 603 14, 691 15, 461 | 55.2 56.3 60.3 62.8 | 50.8 56.9 47.4 47-53 |
| Mature chicken 1985 1986 1987 1988 F | 119 144 163 188 | 636 627 650 6 7 5 | 0 | 755 771 814 863 | 21 16 15 30 | 1 3 2 4 | 144 163 188 160 | 589 589 608 669 | 2.5 2.4 2.5 2.7 | NA NA NA |
| Turkeys 1985 1986 1986 1987 1988 F | 125 150 178 282 | 2,942 3,271 3,828 4,180 | 0 0 0 | 3,067 3,422 4,006 4,462 | 27 27 33 43 | 7 4 4 4 | 150 178 282 250 | 2,884 3,212 3,686 4,165 | 12.0 13.3 15.1 16.9 | 75. 5 72.2 57.8 51-57 |
| Total poultry 1985 1986 1987 1988 F | 264 321 365 495 | 17,340 18,215 20,072 21,226 | 0 | 17,604 18,535 20,437 21,721 | 465 609 800 843 | 151 156 157 148 | 321 365 495 435 | 16,668 17,405 18,985 20,295 | 69.7 72 .0 77.9 82.4 | NA NA NA NA |
| 1988 F Red meat & poulf 1985 1986 1987 1988 F | 1,105 1,054 1,054 1,045 1,240 | 56,748 57,511 58,756 60,074 | 3,255 3,319 3,532 3,680 | 61,108 61,884 63,334 64,994 | 926 1,223 1,522 1,500 | 336 343 336 350 | 1,054 1,044 1,240 1,214 | 58,792 59,273 60,236 61,930 | 213.6 212.2 215.3 220.2 | NA NA NA |

^{1/} Total including farm production for red meats and federally inspected plus non-federally inspected for poultry.
2/ Retail weight basis. (The beef carcass-to-retail conversion factor was changed from .74 to .73 beginning in 1986.)
3/ Dollars per cut for red meat; cents per pound for poultry. Beef: Choice steers, Omaha 1,000-1,100 lb.; pork: barrows and gilts, 7 markets; veal: farm price of calves; lamb and mutton: Choice slaughter lambs, San Angelo; broilers: wholesale 12-city average; turkeys: wholesale NY 8-16 lb. young hens. 4/ Carcass weight for red meats and certified ready-to-cook for poultry.
F = forecast. NA = not available.

Information contacts: Ron Gustafson, Leland South@rd, or Mark Weimar (202) 786-1285.

Table 11.-U.S. Egg Supply & Use

| | | | | | | | Hatch: | | Consur | aption | |
|--|---|--|--|--|---|--|--|---|--|--|---|
| | Beg. stocks | Pro- duc- tion | lm- ports | Total supply | Ex- ports | Ship- ments | ing | Ending stocks | Total | Per capita | Wholesale price* |
| | | | | Mill | ion dozen | | | | | No | Cts/doz |
| 1983 1984 1985 1986 1987 1988 F | 20.3 9.3 11.1 10.7 10.4 14.4 | 5,659.2 5,708.3 5,688.0 5,705.0 5,796.5 5,747.6 | 23.4 32.0 12.7 13.7 5.6 4.0 | 5,702.9 5,749.5 5,711.8 5,729.3 5,811.7 5,766.0 | 85 - 8 58 - 2 70 - 6 101 - 6 111 - 2 125 - 0 | 26.6 27.8 30.3 28.0 25.1 24.0 | 500.0 529.7 548.1 566.8 595.3 615.3 | 9.3 11.1 10.7 10.4 14.0 10.0 | 5,081.2 5,122.8 5,052.0 5,022.5 5,066.9 4,991.7 | 259.8 259.4 253.4 249.5 249.5 243.4 | 75.2 80.9 66.4 71.1 61.6 56-62 |

^{*} Cartoned Grade A large eggs, New York. F = forecast.

Information contact: Robert Bishop (202) 786-1714.

Table 12.-U.S. Milk Supply & Use4

| | | | Comme | | | Total | 000 | Comme | Disap* | All milk price |
|--|--|--|--|--|---|--|---|------------------|---|--|
| Calendar year | Pro- duc- tion | Farm use | farm market ings | Beg. stocks | m- ports | cial supply | CCC net re- movals | Ending stocks | bear. | price 2/ |
| | | | | Bí | llion pour | ds | | | | \$/cwt |
| 1981 1982 1983 1984 1985 1986 1987 1988 F | 132.8 135.5 139.7 135.4 143.1 143.1 142.5 145.0 | 2.3 2.4 2.9 2.5 2.2 2.2 | 130.5 133.1 137.3 132.5 140.7 141.0 140.3 142.8 | 5.8 5.4 4.6 5.2 4.6 4.6 | 2.3 2.5 2.6 2.7 2.8 2.5 2.5 | 138.5 141.0 144.5 140.5 148.4 148.3 146.9 149.9 | 12.9 14.3 16.8 8.6 13.2 10.6 6.7 9.5 | 5.46296267 | 120.3 122.1 122.5 126.9 130.6 133.5 135.6 | 13.77 13.61 13.58 13.46 12.75 12.51 12.54 11.95 |

^{1/} Milkfat basis. Totals may not add because of rounding. 2/ Delivered to plants and dealers; does not reflect deductions. F = forecast.

Information contact: Jim Willer (202) 786-1770.

| Table 13 Poultry | - & | Eggs |
|------------------|-----|------|
|------------------|-----|------|

| Annual 1987 1988 1985 1986 1987 Apr Nov Dec Jan Feb Mar Broilers, federally inspected alaughter, certified (mil lb) 13,569.2 14,265.6 15,502.5 1,274.5 1,177.1 1,336.8 1,294.0 1,301.9 1,400. Wholesale price, 12-city, (cts/lb) 50.8 56.9 47.4 48.6 44.6 39.8 43.9 44.4 48. 12-city, (cts/lb) 197 187 224 182 195 197 194 198 196 Broiler-feed price ratio 1/ 3.1 3.7 3.7 3.2 2.7 2.5 2.8 2.6 2. Stocks beginning of period (mil lb) 19.7 26.6 23.9 25.1 27.3 24.1 24.8 31.0 32. Broiler-type chicks hatched (mil) 2/ 4,803.8 5,013.3 535.1 455.7 423.1 469.7 464.5 431.7 482. | 1 48.7 181 8 3.1 4 35.5 |
|---|--|
| Broilers, federally inspected alsughter, certified (mil lb) 13,569.2 14,265.6 15,502.5 1,274.5 1,177.1 1,336.8 1,294.0 1,301.9 1,400. Wholesale price 12-city, (cts/lb) Price of grower feed (\$/ton) 197 187 224 182 195 197 194 198 196 Broiler-feed price ratio 1/ Stocks beginning of period (mil lb) Broiler-type chicks hatched (mil) 2/ 4,803.8 5,013.3 535.1 455.7 423.1 469.7 464.5 431.7 482. | Apr 4 1,311.3 1 48.7 181 8 3.1 4 35.5 |
| alsughter, certified (mil (b) 13,569.2 14,265.6 15,502.3 1,274.3 1,177.1 1,350.6 7,274.5 4,46.4 48.6 44.6 39.8 43.9 44.4 48.6 12-city, (cts/lb) 50.8 56.9 47.4 48.6 44.6 39.8 43.9 44.4 48.6 19.7 19.7 18.7 22.4 182 19.5 19.7 19.4 19.8 19.6 19.6 19.7 19.7 19.8 19.6 19.7 19.8 19.6 19.7 19.8 19.6 19.7 19.8 19.6 19.7 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 | 1 48.7 181 8 3.1 4 35.5 |
| Motesale price 12-city, (cts/lb) 50.8 56.9 47.4 48.6 44.6 39.8 43.9 44.4 48. Price of grower feed (\$/ton) 197 187 224 182 195 197 194 198 196 Broiler-feed price ratio 1/ 3.1 3.7 3.7 3.2 2.7 2.5 2.8 2.6 2. Stocks beginning of period (mil lb) 19.7 26.6 23.9 25.1 27.3 24.1 24.8 31.0 32. Broiler-type chicks hatched (mil) 2/ 4,803.8 5,013.3 535.1 455.7 423.1 469.7 464.5 431.7 482. | 181 8 3.1 4 35.5 |
| | |
| Turkeys Federally inspected slaughter, certified (mil lb) 2,800 3,133 3,717 255.0 373.5 297.0 254.6 268.1 314. | 0 274.0 |
| Wholesale price, Eastern U.S., 75.5 72.2 57.8 58.3 60.7 66.5 52.8 47.1 47. 8-16 lb. young hens (cts/ib) 75.5 72.2 57.8 58.3 60.7 66.5 52.8 47.1 47. Price of turkey grower feed (\$/ton) 212 215 213 207 219 213 227 223 226 Turkey-feed price ratio 1/ 4.5 4.1 3.9 3.5 3.1 3.6 2.8 2.6 2. Stocks beginning of period (mil lb) 125.3 150.2 178.2 226.0 629.9 321.5 282.4 299.3 335. Poults placed in U.S. (mil) 197.8 225.4 26.5 26.7 17.7 20.0 22.3 23.1 25. | 210 5 2.7 1 353.3 |
| Eggs | 5,656 274 |
| Rate of lay (eggs per layer 247 248 248 20.7 20.4 21.2 21.1 19.9 21 | 5 20.7 |
| Cartoned price, New York, grade A large (ctm/do2) 3/ 66.4 71.1 61.6 62.4 60.5 56.9 55.9 52.7 56 Price of laying feed (\$/ton) 182 174 170 166 168 168 176 177 175 Egg-feed price ratio 1/ 6.3 7.0 7.6 6.6 6.4 5.8 5.6 5.3 5 | 175 |
| Stocks, first of month .93 .72 1.16 .96 1.53 1.20 1.29 2.01 1 Shell (mil doz) 10.2 10.0 9.8 11.0 13.6 13.2 13.1 13.9 13. | 59 2.01 9 10.7 |
| Replacement chicks hatched (mil) 407 424 431 42.4 30.6 31.2 29.5 28.5 34 | 8 35.1 |

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 lb. of broiler or turkey liveweight. 2/ Placement of broiler chicks is currently reported for 12 States only; henceforth, hatch of broiler type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Mark Weimar (202) 786-1714.

| | | mnual | | | 4007 | | | | 1000 | |
|--|--|---|---|---|--|---|---|---|---|---|
| | 1985 | 1986 | 1987 | Apr | 1987 | Dec | Jan | Feb | 1988 | Ann |
| Milk prices, Minnesota-Wisconsin, | 1703 | 1700 | 1701 | Mpi. | Nov | Dec | 401 | 160 | Mar | Apr |
| 3.5% fat (\$/cwt) 1/ Wholesale prices | 11.48 | 11.30 | 11.23 | 11.00 | 11.34 | 11.12 | 10.91 | 10.60 | 10.43 | 10.33 |
| Sutter, Grade A Chi. (cts/lb) Am. cheese, Wim. | 141.1 | 144.5 | 140.2 | 138.8 | 135.6 | 134.0 | 131.9 | 131.0 | 131.0 | 131.0 |
| assembly pt. (cts/lb) Monfat dry milk, (cts/lb) 2/ | 127.7 84.0 | 127.3 80.6 | 123.2 79.3 | 122.4 79.0 | 121.3 77.6 | 120.7 77.0 | 118-4 79.8 | 1 <u>16.1</u> 73.0 | 115.6 73.0 | 115.1 73.1 |
| USDA net removals Total milk equiv. (mil 1b) 3/ Butter (mil 1b) Am. cheese (mil 1b). Nonfat dry milk (mil 1b) | 13,174.1 10 334.2 629.0 940.6 | ,628.1 287.6 468.4 827.3 | 6,706.0 187.3 282.0 559.4 | 598.8 13.6 32.0 61.0 | 429.3 10.9 20.4 24.2 | 746.4 18.7 36.1 42.4 | 1,628.4 56.4 46.6 48.1 | 1,486.5 59.7 25.4 39.6 | 1,091.9 36.1 34.7 49.8 | 1,235.8 42.7 35.6 49.2 |
| Milk Milk prod. 21 States (mil tb) Milk per cow (tb) Mumber of milk cows (thou) U.S. milk production (mil lb) Stock, beginning Yotal (mil tb) | 121,043 121 13,160 13 9,198 9 143,147 143 | ,433 1; ,399 ,063 ,381 14 | 21,094 13,932 8,692 42,462 6/ | 10,381 1,191 8,713 12,248 6/1 | 9,572 1 1,107 8,647 11,264 6/1 | 0,038 1 1,158 8,667 1,808 6/1 | 0,205 1,177 8,667 2,042 6/1 | 9,740 1 1,126 8,649 11,493 6/1 | 0,647 1,234 8,630 2,563 6/1 | 10,593 1,229 8,618 12,456 |
| Stock, beginning Total (mil lb) Commercial (mil lb) Government (mil lb) Imports, total (mil lb) 3/ Commercial disappearance milk equiv. (mil lb) | 16,704 13 4,937 4 11,767 9 2,777 2 | ,695 ,590 ,105 ,733 | 12,867 4,165 8,702 2,490 | | 8,804 5,026 | | 7,371 4,577 | 7 628 | 8,462 | 10,787 5,074 5,712 NA |
| milk equiv. (mil lb) | 130,640 133 | ,497 13 | 55,630 | 11,273 1 | 11,263 1 | 1,243 1 | 0,262 | 9,895 1 | 1,292 | NA., |
| Butter Production (mil lb) Stocks, beginning (mil lb) Commercial disappearance (mil lb) | | | 1,104.1 193.0 902.5 | 102.6 247.9 84.7 | 87.9 165.6 85.0 | 108.5 158.5 81.3 | 124.7 143.2 65.6 | 117.1 157.3 52.0 | 116.3 198.3 73.7 | 111.7 221.1 NA |
| American cheese Production (mil lb) Stocks, beginning (mil lb) Commercial disappearance (mit lb) | 2,855.2 2, | ,798.2 408.6 ,382.8 | 2,716.6 370.4 2,444.1 | 245.2 615.4 190.6 | 207.4 450.9 196.5 | 232.6 408.6 227.4 | 225.8 370.4 173.5 | 221.0 365.7 196.7 | 244.6 362.0 209.0 | 251.8 365.4 NA |
| Other cheese Production (mil lb) Stocks, beginning (mil lb) Commercial disappearance (mil lb) | 2,225.7 2, 101.4 2,515.7 2, | 92. 1 | 2,627.6 92.0 2,880.1 | 216.8 89.4 229.8 | 224.4 96.8 260.3 | 237.2 92.6 262.5 | 207.0 89.7 224.3 | 207.8 90.0 224.8 | 239.3 88.4 254.6 | 221.3 89.0 NA |
| Nonfmt dry milk Production (mil lb) Stocks, beginning (mil lb) Commercial disappearance (mil lb) Frozen dessert | 1,390.0 1 1,247.6 1 435.0 | ,284.1 ,011.1 ,479.1 | 1,059.0 686.8 495.1 | 107.7 512.9 42.1 | 65.5 200.4 41.3 | 90.0 188.0 28.1 | 83.8 177.2 44.0 | 85.8 130.7 39.7 | 95.8 152.2 53.4 | 102.6 151.1 NA |
| Production (mit gal) 4/ | 1,251,0 1, | 248.6 | 1,263.4 | 111.7 | 80.3 | 82.4 | 76.0 | 87.6 | 110.4 | 107.9 |
| | | Innual | | 198 | | | 19 | 87 | | 1988 |
| | 1985 | 1986 | 1987 | 111 | IV | \mathbf{I}_{j} | 11 | 111 | IA | 1.8 |
| Milk production (mil tb) Milk per cow (tb) No. of milk cows (thou) Milk-feed price ratio 5/ Returns over concentrate 5/ costs (%/cwt milk) | 143,147 14 12,994 1 11,016 1 1.72 9.54 | 3,381 3,260 0,813 1.73 9.23 | 142,462 13,786 10,334 1.83 9.50 | 35,459 3,325 10,664 1.72 8.97 | 33,716 3,199 10,541 1.91 10.10 | 34,814 3,340 10,424 1.88 9.82 | 37,399 3,617 10,339 1.76 8.99 | 35,512 3,453 10,283 1.80 9.26 | 34,737 3,375 10,291 1.89 9.97 | 36,098 3,509 10,286 1.74 9.26 |

1/ Manufacturing grade milk. 2/ Prices paid f.o.b. Central States production area, high heat spray process.
3/ Milk-equivalent, fat-basis, 4/ Ice cream, ice milk, and hard sherbet. 5/ Based on average milk price after adjustment for price-support deductions. 6/ Estimated. NA = not available. P = preliminary.

Information contact: Jim Miller (202) 786-1770.

Table 15.-Wool

| | | Annual | | - | 1987 | | | | 1988 | |
|--|-------------------|------------------|-------------------|-----------------|----------------|-----------------------|-----------------|-----------------|-----------------|-----------------|
| | 1985 | 1986 | 1987 | Apr | Nov | Dec | Jan | Feb | Mar | Apr |
| U.S. wool price, Baston 1/ (cts/lb) Imported wool price, | 192 | 191 | 265 | 260 | 300 | 300 | 315 | 397 | 435 | 453 |
| Boston 2/ (cts/lb) U.S. mill consumption, scoured | 197 | 201 | 247 | 248 | 274 | 278 | 295 | 330 | 370 | 441 |
| Apparel wool (thou lb) | 106,051 10,562 | 126,768 9,960 | 129,677 13,092 | 10,881 1,209 | 9,556 1,063 | 11,1 73 708 | 10,106 1,323 | 10,103 1,418 | 13,514 1,786 | 10,061 1,344 |

1/ Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" and up. 2/ Wool price delivered at U.S. mills, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents.

Information contact: John Lawler (202) 786-1840.

| | | Annual | | | 1987 | | | 198 | 38 | |
|--|---|---|--|---|---|---|---|---|---|---|
| | 1985 | 1986 | 1987 | Apr | Nov | Dec | Jan | Feb | Mar | Apre |
| Cattle on feed (7 States) Number on feed (thou head) 1/ Placed on feed (thou head) Marketings (thou head) Other disappearance (thou head) | 8,635 19,346 18,989 1,132 | 7,920 20,035 19,263 1,049 | 7,643 21,020 19,390 1,207 | 7,232 1,681 1,541 139 | 8,364 1,609 1,458 103 | 8,412 1,350 1,577 119 | 8,066 1,660 1,759 111 | 7,856 1,369 1,527 126 | 7,572 1,833 1,573 106 | 7,726 1,531 1,614 139 |
| Beef steer-corn price ratio, Omaha 2/ Hog-corn price ratio, Omaha 2/ | 23.3 17.8 | 31.0 27.8 | 41.0 33.7 | 42.3 32.7 | 38.4 24.3 | 36.7 23.8 | 36.4 25.0 | 37.4 25.7 | 38.4 23.0 | 39.3 22.5 |
| Market prices (\$/cwt) Slaughter cattle Choice steers, Omaha Utility cows, Omaha Choice vealers, S. St. Paul Feeder cattle Choice, Kansas City, 600-700 lb | 58.37 38.37 58.28 | 37.19 3 59.92 | 44.83 78.74 | 44.23 75.00 | 44.83 82.50 | 83.00 | 65.00 47.83 86.88 | 49.55 87.50 | 71.53 49.83 87.50 85.20 | 72.71 49.41 96.41 86.50 |
| Slaughter hogs | | | | _ | | | 44.43 | 47.01 | 42.79 | 42.10 |
| Barrows & gilts, 7-markets Feeder pigs S. Mo. 40-50 lb. (per head) | 37.20 | | | | | | 37.47 | | 48 .6 5 | 52.16 |
| Slaughter sheep & lambs Lambs, Choice, San Angelo Ewes, Good, San Angelo Feeder lambs | 68.6 34.0 | | | 93.12 39.05 | | | | 38.25 | 83.75 41.17 | |
| Choice, San Angelo | 85.9 | 73.14 | 102.26 | 109.40 | 99.50 | 105.83 | 113:63 | 112.63 | 111.30 | 100.25 |
| Wholesale meat prices, Midwest Choice steer beef, 600-700 lb. Canner & cutter cow beef Pork loins, 8-14 lb. 3/ Pork bellies, 12-14 lb. Hams, skinned, 14-17 lb. | 90.76 74.13 91.5 59.56 67.50 | 3 71.31 1 104.78 0 65.82 | 83.70 106.23 63.11 | 102.21 65.79 | 83.41 80.35 45.86 | 88.45 84.70 42.60 | 88.98 102:43 51.82 | 92.18 94.93 48.40 | 103.47 90.33 87.82 45.32 78.35 | 89.69 94.03 43.13 |
| All fresh beef retail price 4/ | NA | NA | 212.64 | 208.91 | 218.57 | 218.53 | 213,95 | 217.58 | 219.97 | 219.68 |
| Commercial slaughter (thou head)* Cattle Steers Heifers Cows Bulls & stags Calves Sheep & lambs Hogs | 36, 293 16, 912 11, 237 7, 391 758 3, 385 6, 165 84, 492 | 37, 288 17,516 11,097 7,960 715 3,408 5,635 79,598 | 35,647 17,443 10,906 6,608 690 2,836 5,198 81,090 | 2,971 1,523 855 534 59 226 496 6,667 | 2,751 1,314 817 570 51 222 412 7,321 | 2,899 1,425 868 555 51 252 451 7,813 | 2,921 1,464 891 519 47 214 390 6,977 | 2,758 1,400 815 495 48 210 416 6,682 | 2,896 1,436 894 512 54 223 548 7,680 | 2,784 1,448 823 462 51 176 404 7,090 |
| Commercial production (mil lb) Beef Veal Lamb & mutton Pork | 23,557 499 352 14,728 | 24,213 509 331 13,988 | 23,406 422 309 14,314 | 1,928 34 29 1,170 | 1,828 32 25 1,312 | 1,924 36 28 1,390 | 1,943 32 24 1,244 | 1,828 32 26 1,183 | 1,925 33 35 1,360 | 1,842 28 26 1,263 |
| | | Annual | | 1986 | | | 87 | | | 988 |
| | 1985 | 1986 | 1987 | IA | 1 | 11 | щ | 17 | 3 | 11 |
| Cattle on feed (13 States) Number on feed (thou head) 1/ Placed on feed (thou head) Marketings (thou head) Other disappearance (thou head) | 10,653 23,366 22,887 1,378 | 9,754 23,583 22,856 1,236 | 9,245 24,874 22,971 1,379 | 8,197 6,756 5,396 312 | 9,245 5,680 5,747 371 | 8,807 5,906 5,619 428 | 8,666 6,590 6,022 242 | 8,992 6,698 5,583 338 | 9,769 5,796 5,810 390 | 9,365 NA 0/5,931 NA |
| Hogs & pigs (10 States) 5/ Inventory (thou head) 1/ Breeding (thou head) 1/ Market (thou head) 1/ Farrowings (thou head) Pig crop (thou head) | 42,420 5,348 37,072 8,831 67,648 | 41,100 5,258 35,842 8,223 63,835 | 39,690 5,110 34,580 8,783 68,417 | 39,585 4,895 34,690 2,115 16,460 | 39,690 5,110 34,580 1,967 14,840 | 38,370 5,215 33,155 2,352 18,601 | 40,880 5,325 35,555 2,257 17,481 | 43,075 5,300 37,775 2,258 17,495 | 5,400 36,875 2,030 15,765 | 40,495 5,420 35,075 5/2,399 NA |

1/ Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live weight. 3/ Beginning January 1984 prices are for 14-17 lb.; January 1986 prices are for 14-18 lb. 4/ New series estimating the composite price of all beef grades and ground beef sold by retail stores. This new series in addition to but does not replace the series for the retail price of Choice beef that appears in table 8. 5/ Quarters are Dec. of preceding year-Feb. (I), Mar.-May (II), June-Aug. (III), and Sept.-Nov. (IV). 6/ Intentions. *Classes estimated. NA = not available.

Information contacts: Ron Gustafson or Leland Southard (202) 786-1285.

Table 17.—Supply & Utilization1,2

| | | | _ | | | | _ | | | | | |
|--|--------------------------------------|--------------------------------------|--|---|--|--|--|--|--|--|--|---|
| | Set aside 3/ | | Harves- ted | Yield | Produc- tion | Total supply | Feed and resid- ual | Other domes- tic use | Ex- ports | Total use | Ending atocks | Form price 5/ |
| | | Mit. acres | | Bu/acre | ••••• | | | иit. | bu | | ******* | \$/bu |
| 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 30.0 18.3 18.8 20.4 20.2 | 76.4 79.2 75.6 72.1 65.8 | 61.4 66.9 64.7 60.7 55.9 | 37.6 | 2,420 2,595 2,425 2,092 2,105 2,120 | 3,939 4,003 3,866 4,018 3,941 3,371 | 369 405 279 408 300 250 | 805 | | 2,540 2,578 1,961 2,197 2,705 2,590 | 1,399 1,425 1,905 1,821 1,236 781 | 3.51 3.39 3.08 2.42 2.55 2.90-3.30 |
| a: | | Mil. acres | | Lb/acre | | | | Mit. cw | t (rough ed | | | \$/cwt |
| Rice 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 1.74 .79 1.24 1.27 1.26 | 2.51 2.38 2.35 | 2.17 2.80 2.49 2.36 2.33 | 4,598 4,954 5,414 5,651 5,482 | 99.7 138.8 134.9 133.4 127.7 157.0 | .172.1 187.3 201.8 213.3 182.3 191.7 | 4 * • • - * | 6/54.9 6/60.5 6/65.8 6/76.3 6/80.8 6/83.5 | 70.3 62.1 58.7 85.4 70.0 77.0 | 125.0 122.6 124.5 161.7 150.8 160.5 | 46.9 64.7 77.3 51.6 31.5 31.2 | 8.57 8.04 6.53 3.75 7.00-7.25 5.00-7.00 |
| Corn | | Mil. acres | | Bu/acre | | | | pit. I | ou ou | | | \$/bu |
| 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 32.2 3.9 5.4 13.6 21.6 | 60.2 80.5 83.4 76.7 65.7 | 51.5 71.9 75.2 69.2 59.2 | 81.1 106.7 118.0 119.3 119.4 | 4,175 7,674 8,877 8,250 7,064 7,300 | 7,700 8,684 10,536 12,291 11,948 11,415 | 3,818 4,079 4,095 4,714 4,900 5,000 | 975 1,091 1,160 1,192 1,236 1,275 | 1,901 1,865 1,241 1,504 1,700 1,750 | 6,694 7,036 6,496 7,410 7,836 8,025 | 1,006 1,648 4,040 4,882 4,112 3,390 | 3.21 2.63 2.23 1.50 1.65-1.89 |
| Sa-abi- | | Mil. acres | | Bu/acre | | | | Mit. I | bu | | | \$/bu |
| Sorghum 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 5.7 .6 .9 2.3 3.8 | 11.9 17.3 18.3 15.3 11.8 | 10.0 15.4 16.8 13.9 10.6 | 48.7 56.4 66.8 67.7 69.9 | 488 866 1,120 938 741 650 | 927 1,154 1,420 1,489 1,472 1,332 | 385 539 664 545 550 500 | 10 18 28 15 15 | 245 297 178 198 225 210 | 640 854 869 758 790 725 | 287 300 551 732 682 607 | 2.74 2.32 1.93 1.37 1.50-1.65 |
| DI | | Mil. acres | | Bu/acre | | | | Mit. E | | | | \$/bu |
| Barley 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 1.1 .5 .7 1.8 2.9 | 10.4 12.0 13.2 13.1 11.0 | 9.7 11.2 11.6 12.0 10.0 | 52.3 53.4 51.0 50.8 52.6 | 509 599 591 611 527 500 | 733 799 848 942 878 813 | 282 304 333 296 275 265 | 170 170 169 174 175 | 92 77 22 137 130 100 | 544 551 523 606 580 540 | 189 247 325 336 298 273 | 2.47 2.29 1.98 1.61 1.83 1.70-2.00 |
| Gats | | Mil. acres | | Bu/acre | | | | Mil. t |)u | | | \$/bu |
| 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 1.0 | 20.3 12.4 13.3 14.7 18.0 | 9.1 8.2 8.2 6.9 | 52.6 58.0 63.7 56.3 54.0 | 477 474 521 386 374 450 | 727 689 728 603 547 596 | 466 433 460 395 350 380 | 78 74 82 73 75 80 | 212311 | 546 509 544 471 426 461 | 181 180 184 133 121 135 | 1.62 1.67 1.23 1.21 1.57 1.25-1.45 |
| Soybeans | | Mil. acres | | Bu/acre | | | | Mil. E | u | | | \$/bu |
| 1983/84 1984/85 1985/86 1985/86* 1987/88* 1988/89* | 00000 | 63.8 67.8 63.1 60.4 57.4 | 62.5 66.1 61.6 58.3 56.4 | 26.2 28.1 34.1 33.3 33.7 | 1,636 1,861 2,099 1,940 1,905 1,880 | 1,981 2,037 2,415 2,476 2,341 2,155 | 7/79 7/93 7/86 7/104 7/96 | 983 1,030 1,053 1,179 1,170 1,155 | 743 598 740 757 800 750 | 1,805 1,721 1,879 2,040 2,066 2,010 | 176 5316 536 436 275 155 | 7.83 5.84 5.05 4.78 5.90 5.75-7.75 |
| Soybean oil | | | | | | | | Mil. U | | | 8, | Cts/lb |
| 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | | | | | 10,872 11,468 11,617 12,783 12,878 12,710 | 12,133 12,209 12,257 13,745 14,605 14,120 | •• | 9,588 9,917 10,053 10,833 11,000 11,200 | 1,824 1,660 1,257 1,187 2,205 1,700 | 11,412 11,577 11,310 12,020 13,205 12,900 | 721 632 947 1,725 1,480 1,210 | 30.60 29.50 18.00 15.40 21.00 20.00-25.0 |
| Soybean meal | | | | | | | | Thou. t | | | 9 | / \$/ton |
| 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* See footnotes | at end o | f table. | 4 4 4 4 4 4 4 4 4 4 4 4 | | 22,756 24,529 24,951 27,758 28,010 27,500 | 23,230 24,784 25,338 27,970 28,050 27,800 | | 17,615 19,480 19,090 20,387 21,050 21,000 | 5,360 4,917 6,036 7,343 6,700 6,500 | 22,975 24,397 25,126 27,730 27,750 27,500 | 255 387 212 240 300 300 | 188 125 155 163 210 190-240 |

Table 17. - Supply & Utilization, continued

| | Set sside 3/ | Area Planted | Harves- ted | Yfeld | Production | Total supply | feed and resid- ual | Other domes tic use | Ex- ports | Total Use | Ending Stocks | Ferm price 5/ |
|---|---------------------------------|-------------------------------------|------------------------------------|---------------------------------|--|--|------------------------------|--|--|---|--|---|
| 0 | | Mil. acres | 3 | Lb/acre | | | | Mil. | bales | | | Cts/lb |
| Cotton 10/ 1983/84 1984/85 1985/86 1986/87* 1987/88* 1988/89* | 6.8 2.5 3.6 3.4 3.3 | 7.9 11.1 10.7 10.0 10.4 | 7.3 10.4 10.2 8.5 10.0 | 508 600 630 552 706 | 7.8 13.0 13.4 9.7 14.8 14.0 | 15.7 15.8 17.6 19.1 19.8 19.6 | | 5.9 5.5 6.4 7.4 7.8 7.2 | 6.8 6.2 2.0 6.7 6.6 5.7 | 12.7 11.8 8.4 14.1 14.4 12.9 | 2.8 4.1 9.4 5.0 5.6 6.8 | 65.30 58.70 56.50 52.40 64.20 |

*June 9, 1988 Supply and Demand Estimates. 1/ Marketing year beginning June 1 for wheat, barley, and oats, August 1 for cotton and rice, September 1 for soybeans, corn, and sorghum. October 1 for soymeal, and soyoil. 2/ Conversion factors: Hectare (ha.) = 2.471 acres, 1 metric ton = 2204.622 pounds, 36.7437 bushels of wheat or soybeans, 39.3679 bushels of corn or sorghum, 45.9296 bushels of barley, 68.8944 bushels of costs; 22.046 cpt. of rice, and 4.59 480-pound bales of cotton. 3/ Includes diversion, PIK, and acreage reduction programs. 4/ Includes imports. 5/ Market average prices do not include an allowance for loans outstanding and Government purchases. 6/ Residual included in domestic use. 7/ Includes seed. 8/ Average of crude soybean oil, Decatur. 9/ Average of 44 percent, Decatur. 10/ Upland and extra long staple. Stock estimates based on Census Bureau data which results in an unaccounted difference between supply and use estimates and changes in ending stocks.

Information contact: Commodity Economics Division, Crops Branch (202) 786-1840.

Table 18. - Food Grains

| | Marketi | ng year 1/ | | 15 | 787 | | 198 | 38 | |
|---------------|-----------------------|--|---|--|---|---|--|---|---|
| 1983/84 1 | 984/85 | 1985/86 | 1986/87 | Apr. | Dec | Jan | Feb | Mar | Apr |
| | | | | | | | | | |
| 3.84 | 3.74 | 3.28 | 2.72 | 2.90 | 3.70 | 3.20 | 3.28 | 3.10 | 3.14 |
| 4.21 19.38 | 3.70 17.98 | 3.25 16.11 | 2.62 10.25 | 2.60 | 2.96 19.70 | 3.12 20.60 | 3.26 24.45 | 3.05 24.50 | 3.19 24.00 |
| 1,429 | 1,424 | 915 703 | 1,004 | 73 61 | 118 62 | 148 59 | 147 58 | 151 62 | NA NA NA |
| | | | | | | | 4.3 | 5.9 | NA. |
| | 3.84 4.21 19.38 | 3.84 3.74 4.21 3.70 19.38 17.98 1,429 1,424 701 676 308 301 | 1983/84 1984/85 1985/86 3.84 3.74 3.28 4.21 3.70 3.25 19.38 17.98 16.11 1,429 1,424 915 701 676 703 308 301 314 | 3.84 3.74 3.28 2.72 4.21 3.70 3.25 2.62 19.38 17.98 16.11 10.25 1,429 1,424 915 1,004 701 676 703 755 308 301 314 335 | 1983/84 1984/85 1985/86 1986/87 Apr. 3.84 3.74 3.28 2.72 2.90 4.21 3.70 3.25 2.62 2.60 19.38 17.98 16.11 10.25 10.40 1,429 1,424 915 1,004 73 701 676 703 755 61 308 301 314 335 27 | 1983/84 1984/85 1985/86 1986/87 Apr. Dec 3.84 3.74 3.28 2.72 2.90 3.70 4.21 3.70 3.25 2.62 2.60 2.96 19.38 17.98 16.11 10.25 10.40 19.70 1.429 1.424 915 1.004 73 118 701 676 703 755 61 62 308 301 314 335 27 28 | 1983/84 1984/85 1985/86 1986/87 Apr Dec Jan 3.84 3.74 3.28 2.72 2.90 3.70 3.20 4.21 3.70 3.25 2.62 2.60 2.96 3.12 19.38 17.98 16.11 10.25 10.40 19.70 20.60 1,429 1,424 915 1,004 73 118 148 701 676 703 755 61 62 59 308 301 314 335 27 28 26 | 1983/84 1984/85 1985/86 1986/87 Apr Dec Jan Feb 3.84 3.74 3.28 2.72 2.90 3.70 3.20 3.28 4.21 3.70 3.25 2.62 2.60 2.96 3.12 3.26 19.38 17.98 16.11 10.25 10.40 19.70 20.60 24.45 1,429 1,424 915 1,004 73 118 148 147 701 676 703 755 61 62 59 58 308 301 314 335 27 28 26 26 | 1983/84 1984/85 1985/86 1986/87 Apr. Dec Jan Feb Mar. 3.84 3.74 3.28 2.72 2.90 3.70 3.20 3.28 3.10 4.21 3.70 3.25 2.62 2.60 2.96 3.12 3.26 3.05 19.38 17.98 16.11 10.25 10.40 19.70 20.60 24.45 24.50 1,429 1,424 915 1,004 73 118 148 147 151 701 676 703 755 61 62 59 58 62 308 301 314 335 27 28 26 26 27 |

| | Ma | rketing y | ear 1/ | 1986 | | 1 | 987 | | 1988 | | |
|--|---------------------|-------------------|-----------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|------------------|----------------|--|
| | 1984/85 | 1985/86 | 1986/87 | Sept-Nov | Dec-Feb | Mar-May | Jun-Aug | Sept-Nov | Dec-Feb | Mar-May | |
| Wheat Stocks, beginning (mil bu) Domestic use: | 1,399 | 1,425 | 1,905 | 3,154.6 | 2,671.5 | 2,249.8 | 1,820.9 | 2,988.5 | 2,505.3 | 1,908.5 | |
| Food (mil bu) Feed & seed (mil bu) 4/ Exports (mil bu) | 651 502 1,424 | 683 363 915 | 714 54 8 1,004 | 192.2 31.1 263.4 | 177.2 47.6 202.7 | 180.3 38.7 216.8 | 184.9 345.5 409.9 | 196.1 -17.7 308.5 | 175 13 412 | NA NA NA | |

1/ Beginning June 1 for wheat and August 1 for rice. 2/ Ordinary protein. 3/ Long-grain, milled basis. 4/ Feed use approximated by residual. NA = not available.

Information contacts: Ed Allen and Janet Livezey (202) 786-1840.

Table 19.-Cotton

| | _ | | | | | | | | | |
|--|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|----------------------|----------------------|----------------------|------------------------------|---------------------|
| | | Marke | ting year | 1/ | | 1987 | | | 1988 | |
| | 1983/84 | 1984/85 | 1985/86 | 1986/87 | Apr | Dec | Jan | Feb | Mar | Apr |
| U.S. price, SLM, 1-1/16 in. (cts/lb) 2/ | 73.1 | 60.5 | 60.0 | 53.2 | 57.7 | 62.3 | 59.7 | 57. | 59.6 | 60.1 |
| Northern Europe prices: Index (cts/lb) 3/ U.S. M 1-3/32 in. (cts/lb) 4/ | 87.6 87.1 | 69.2 73.9 | 48.9 64.8 | 62.0 61.8 | 66.2 65.2 | 方。 方。 | 72.2 72.8 | 67. 69. | 66.3 70.8 | 65.8 72.4 |
| U.S. mill consumption (thou bales) Exports (thou bales) Stocks, beginning (thou bales) | 5,927 6,786 7,937 | 5,545 6,201 2,775 | 6,399 1,969 4,102 | 7,452 6,684 9,348 | 661 660 9,749 | 645 721 11,946 | 621 663 12,836 | 649 740 12,477 | 706 779 11,2 73 | 613 592 9,788 |

1/ Beginning August 1. 2/ Average spot market. 3/ Liverpool Outlook (A) Index; average of 5 lowest priced of 11 selected growths. 4/ Memphis territory growths.

Information contact: Bob Skinner (202) 786-1840.

| | | Marketi | ng year 1, | / | 1 | 987 | | 1 | 988 | |
|---|--------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|----------------|
| | 1983/84 | 1984/85 | 1985/86 | 1986/8 | Ž Apr | Dec | Jan | Feb | Mac | Арг |
| Wholesale prices Corn, No. 2 yellow, Chicago (\$/bu) Songhum, No. 2 yellow, | 3.46 | 2.79 | 2.35 | 1.64 | 2.03 | 1.89 | 1.95 | 2.01 | 2.03 | 1.69 |
| Kansas City (\$/cwt) | 5.22 | 4.46 | 3.72 | 2.73 | 2.85 | 2.95 | 3.05 | 3.24 | 3.27 | 3.16 |
| Barley, feed, Duluth (\$/bu) 2/ | 2.48 | 2.09 | 1.53 | 1.44 | 1.76 | 1.74 | 1.72 | 1.77 | 1,88 | 1.94 |
| Barley, malting, Minneapolia (\$/bu) | 2.84 | 2,55 | 2.24 | 1.89 | 2.05 | 2.01 | 2.02 | 2.15 | 2.08 | 2.11 |
| Exports Corn (mil bu) feed grains (mil metric stons) | 1,902 3/ 56.5 | 1,865 56.6 | 1,241 36.6 | 1,504 46.3 | 184.3 5.4 | 149 | 134 4.1 | 125 4.0 | 165.3 5.2 | NA NA |
| | | Marketi | ng year 1, | / | | 19 | 87 | | 198 | 38 |
| 0.00 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | Dec-Feb | Mar-May | Jun-Aug | Sept-Nov | Dec-Feb F | lar-Nay |
| Stocks, beginning (mit bu) | 3;523 | 1,006 | 1,648 | 4,040 | 10,306 | 8,248 | 6,332 | 4,882 | 9,769 | 7,632 |
| Domestic use: Feed (mil bu) Food, seed, ind. (mil bu) Exports (mil bu) Total use (mil bu) | 3,818 975 1,902 6,694 | 4,079 1,091 1,865 7,036 | 4,095 1,160 1,241 6,496 | 4,717 1,191 1,504 7,410 | 1,472 270 315 2,058 | 1,091 325 500 1,917 | 768 315 368 1,451 | 1,488 292 398 2,178 | 1,451 277 410 2,138 | NA NA NA |

1/ September 1 for corn and sorghum; June 1 for oats and barley, 2/ Beginning March 1987 reporting point changed from Minneapolis to Duluth. 3/ Aggregated data for corn, Sorghum, oats, and barley. NA = not available.

Information contact: James Cole (202) 786-1840.

Table 21.-Fats & 0ils

| | 7 | | | _ | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| | | Marketing | year 1/ | | | 1987 | | | 1988 | |
| | 1983/84 | 1984/85 | 1985/86 | 1986/87 | Mar | Nov | Dec | Jan | Feb | Mar |
| Soybeans Wholesale price, No. 1 yellow Chicago (\$/bu) 2/ Crushings (mil bu) Exports (mil bu) Stocks, beginning (mil bu) | 7.78 982.7 742.8 344.6 | 5.88 1,030.5 600.7 175.7 | 5.20 1,052:8 740.7 316.0 | 5.03 1,178.8 756.9 536.0 | 4.86 106.0 67.8 105.4 | 5.53 111.2 98.1 158.5 | 5.85 110.8 76.7 155.5 | 6.13 106.7 77.0 145.0 | 6.14 99.8 97.0 141.8 | 6.24 108.3 74.8 139.3 |
| Soybean oil Wholesale price, crude, Oecatur (cts/lb) Production (mil lb) Oomestic disap. (mil lb) Exports (mil lb) Stocks, beginning (mil lb) | 30.55 10.862.8 9.589.6 1,813.7 1,260.9 | 29.52 11,467,9 9,888.5 1,659.9 720.5 | 18.02 11,617.3 10,045.9 1,257.3 632.5 | 15.36 12,783.1 10,820.1 1,184.5 946.6 | 15.21 1,149.0 761.6 52.1 2,017.0 | 17.55 1,207.1 895.1 139.0 1,660.6 | 19.00 1,208.1 857.3 134.0 1,833.7 | 21.98 1,170.2 804.0 25.7 2,050.5 | 20.94 1,091.8 962.9 281.0 2,390.9 | 20.22 1,187.0 924.4 273.7 2,238.9 |
| Soybean meal Wholesale price, 44% protein, Decatur (\$/ton) Production (thou ton) Domestic disap. (thou ton) Exports (thou ton) Stocks, beginning (thou ton) | 188.21 22,756.2 17,538.8 5,436.1 474.1 | 125,46 24,529,9 19,481.3 4,916,5 255.4 | 154.88 24,951.3 19,117.2 6,009.3 386.9 | 162.61 27,758.8 20,387.4 7,343.0 211.7 | 146.60 2,489.1 1,538.4 992.4 277.5 | 206.60 2,667.8 2,113.9 509.7 267.6 | 214.80 2,649.3 2,012.6 652.3 311.8 | 193.75 2,554.4 1,825.2 635.0 296.2 | 183.00 2,377.1 1,475.8 986.9 390.4 | 191.80 2,573.3 1,649.8 984.7 304.9 |
| Margarine, wholesale price, Chicago, white (cts/lb) | 46.3 | 55.5 | 51.2 | 40.3 | 39.20 | 42.65 | 44.20 | 46.75 | 46.00 | 45.80 |

^{1/} Beginning September 1 for soybeans; October 1 for soymeal and oil; calendar year for margarine. 2/ Beginning April 1, 1982, prices based on 30-day delivery, using upper end of the range,

Information contacts: Roger Hoskin (202) 786-1840; Fom Bickerton (202) 786-1824.

Table 22.—Farm Programs, Price Supports, Participation & Payment Rates

| | | | | Pa | yment rates | | | | |
|--|--|--|--------------------------------------|---|--------------------------------|------------------|--|---|--|
| | Target price | Loan rate | Findley loan rate | Deficiency | Paid tand diver- sion | PIK | Base scres | Program 1/ | Partici- pation rate 2/ |
| | | | \$/bu. | | | Percent 3/ | Mit. ecres | | Percent of base |
| Wheat 1983/84 1984/85 1985/86 1985/87 1986/87 1988/89 1988/89 | 4.30 4.38 4.38 4.38 4.38 4.23 | 3.65 3.30 3.30 3.00 2.85 2.76 | 2.40 2.28 2.21 | 1.00 1.08 1.98 1.98 1.78 | 2.70 2.70 2.70 2.00 | 95 85 1.10 | 90.9 94.0 94.0 92.2 91.6 | 15/5/10-30 20/10/10-20 20/10/0 22.5/2.5/5-10 27.5/0/0 27.5/0/0 10/0/0 | 78/78/51 60/60/20 73 85/85/21 87 |
| Rice 1983/84 | 11.40 | 8.14 | \$/cwt | 2.77 | 2.70 | 80 | 3.95 | 15/5/10-30 | 98/98/87 |
| 1984/85 1985/86 1986/87 4/ 1987/88 1988/89 | 11.90 11.90 11.90 11.66 11.15 | 8.00 7.20 6.84 6.63 | 5/3.16 5/3.82 5/5.75 5/7.00 | 3.76 3.90 4.70 4.82 1.65 | 3.50 | | 4.16 4.23 4.20 4.20 4.22 | 25/0/0 20/15/0 35/0/0 35/0/0 25/0/0 | 85 89 92 97 85 |
| Corn | 2.01 | 5 45 | \$/bu | ^ | 1 50 | 80 | 82.6 | 10/10/10-30 | 71/71/60 |
| 1983/84 1984/85 1985/86 1986/87 4/ 1987/88 1988/89 | 2.66 3.03 3.03 3.03 3.03 2.93 | 2.65 2.55 2.55 2.40 2.28 2.21 | 1.92 1.82 1.77 | .43 .48 1.11 1.21 1.10 | 1.50 .73 2.00 1.75 | 80 | 80.8 84.2 81.9 83.3 | 10/0/0 10/0/0 17.5/2.5/0 20/15/0 20/10/0: 0/92 | 54 69 85 88/55 |
| Sorghum | | | \$/bu. | | | | | | |
| 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 | 2.72 2.88 2.88 2.88 2.88 2.88 | 2.52 2.42 2.42 2.28 2.18 2.10 | 1.82 1.74 1.68 | .46 .46 1.06 1.14 1.08 | 1.50 .65 1.90 1.65 | 80 | 18.0 18.2 19.3 18.7 18.1 | 6/[\$ame] | 72/72/53 ₅ . 42 55 75 83/42 |
| Barley | | | \$/bu. | | | | | | |
| Barley 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 | 2.60 2.60 2.60 2.60 2.60 2.51 | 2.16 2.08 2.08 1.95 1.86 1.80 | 1.56 1.49 1.44 | 1.26 .52 1.04 1.11 .76 | 1.00 .57 1.60 1.40 | | 11.0 11.6 13.3 12.4 12.9 | 6/[same] | 55/55/0 44 57 73 82/23 |
| Cats | | | s/bu. | | | | | 4.63 | 20/20/0 |
| 1983/84: 1984/85 1985/86 1986/87 4/ 1987/88 1988/89 | 1.60 1.60 1.60 1.60 1.50 | 1.36 1.31 1.31 1.24 1.18 | .99 .94 .90 | .13 0 .29 .50 .55 .30 | .75 .36 .80 | | 9.8 9.8 9.4 9.5 8.7 | 6/{same} 5/0/0; 0/92 | 14 14 37 44/15 |
| _ | ,,,,, | | s/bu. | | | | | • | |
| Soybeans 7/ 1983/84 1984/85 1985/86 1986/87 4/ 1987/88 1988/89 | | 5.02 5.02 5.02 4.77 4.77 | | | | | | | |
| Upland cotton | | | Cts/lb. | | | | | | |
| 1983/84 1984/85 1985/86 1986/87 4/ 1987/88 1988/89 | 76.0 81.0 81.0 81.0 79.4 75.9 | 55.00 55.00 57.30 55.00 52.25 51.80 | 8/44.00 | 12.10 18.60 23.70 26.00 17.3 16.00 | 25.00 30.00 | 85 | 15.4 15.6 15.8 15.5 15.3 15.0 | 20/5/10-30 25/0/0 20/10/0 25/0/0 25/0/0 12.5/0/0 | 93/93/77 70 82/0/0 93 92 |

^{1/} Percentage of base acres farmers participating in Acreage Reduction Programm/Paid Land Diversion/PIK were required to devote to conserving uses to receive program benefits. In addition to the percentages shown for 1983/84, farmers had the option of submitting bids to retire their entire base acreages. 2/ Percentage of base acres enrolled in Acreage Reduction Programs/Paid Land Diversion/PIK. 3/ Percent of program yield, except 1986/87 wheat, which is dollars per bushel. 1983 and 1984 PIK rates apply only to the 10-30 and 10-20 portions, respectively. 4/ Payment rates for payments received in cash were reduced by 4.3 percent in 1986/87 due to Gramm-Rudman-Hollings. 5/ Annual average world market price. 6/ The sorghum, oats and barley programs were the same as for corn each year except 1983/84, when PIK was not offered on barley and oats, and in 1988 for oats. 7/ There are no target prices, acreage programs, or payment rates for soybeans. 8/ Loan repayment rate. 9/ Loans may be repaid at the lower of the loan rate or world market prices.

information contact: James.Cole (202) 786:1840.

| | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 P |
|---|-----------------------------------|----------------------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|-------------------------------------|-----------------------------------|
| Production (thou ton) Per capita consumption (ibs) Non citrus 3/ | 15,242 2/ 117.2 | 14,255 | | 16,484 108. | | 12,057 | 13,608 1 109.6 | 0,792 1 120.2 | 0,488 1 102.8 | 1,074 11 115.7 | ,952 12 109.8 | 2,796 NA |
| Production (thou tons) Per capita consumption (ibs) | 11,846 2/ 84.2 | 12,274 | 12,460 82.5 | 13,689 85. | 15, 152 87.3 | 12,961 88.1 | 14,217 1 89.0 | 4,154 1 89.0 | 4,292 14 93.7 | 4,188 13 92.6 | 95.3 | 5,333 NA |
| | | | | | 1987 | | | | | 19 | 88 | |
| s o s | Hay | June | July | Aug | 5ept | Oct | Nov | - Dec | Jan | Feb | Har | Арг |
| F.O.B. shipping point prices Apples (%/carton) 4/ Peara (%/box) 5/ Oranges (%/box) 6/ Grapefruit (%/box) 6/ | 16.63 15.28 5.62 4.94 | 17.60 21.00 6.47 4.34 | 14.34 NA 6.29 5.58 | 11.60 NA 6.18 5.95 | NA | 7.9: 12.00 7.30 5.0 | 10.82 10.23 | 6.98 9.70 5.45 5.84 | 9.26 6.19 | 11.50 11.18 6.24 5.25 | 11.08 5.94 5.99 4.86 | 10.96 12.88 6.42 4.50 |
| Stocks, ending Fresh apples (mil lbs) Fresh peara (mil lbs) Frozen fruits (mil lbs) Frozen orange Juice (mil lbs) | 386.3 21.1 510.6 1,109.1 | 203.8 1.7 625.9 1,105.1 | 74.9 11.8 865.7 942.1 | 4.2 195.2 908.3 792.6 | 2,687-1 507.1 908.7 840.0 | 5,390.2 425.8 957.9 652.8 | 4,697.2 338.8 943.1 569.0 | 3,311.6 279.4 858.2 662.4 | 3,158.9 198.4 790.4 980.4 | 2,417.4 148.4 720.1 1,073.1 | 1,584.1 99.7 634.6 1,004.1 | 1,092.7 49.2 590.1 948.5 |

1/ Crop year beginning with year indicated. 2/ Per Capita consumption for total U.S. population, including military consumption of both fresh and processed fruit in fresh weight equivalent. 3/ Calendar year. 4/ Red Delicious, Washington, extra fancy, carton tray pack, 80-1134a. 5/ D'Anjou, Washington, standard box wrapped, U.S. No. 1, 90-1354a. 6/ U.S. equivalent on-tree returns. P = preliminary. NA = not available.

Information contact: Ben Huang (202) 786-1885.

Table 24. -- Vegetables

| Production Total vegetables (1,000 cWt) Fresh (1,000 cWt) 1/ 2/ Processed (toms) 3/ Mushrooms (1,000 bs) | 182,563 | 1979 413,921 190,851 11,153,300 470,061 | 5 38 | 1980 1,370 0,228 7,100 9 9,576 2,857 | 1981 379,123 194,694 ,221,460 517,146 | 198 431.5 207.9 11,179.5 490.8 | 15 40 24 19 90 10,27 26 56 | 1983 03,320 07,919 | 1984 457, 392 217, 132 2, 013, 020 595, 681. | 19 453, 217, 11,791, 587. | 769 4 932 2 860 11 6 | 1986 45,436 16,267 16,560 1 | 1987 462,402 218,190 2,210,580 NA |
|--|--|---|------------------------|---|---|--|-------------------------------------|----------------------------|--|---------------------------------------|----------------------------|--------------------------------------|---|
| Potatoes (1,000 cut) Sweetpotatoes (1,000 cut) Dry adible bears (1,000 cut) | 454,007 366,314 13,115 18,935 | 470,069 342,44 13,370 20,556 | 7 30: 0 1: 2 2: | 2,857 0,953 6,729 | 517, 146 338, 591 12, 799 32, 751 | 355, 1; 14, 8; 25, 5; | 31 33 | 33,911 12,083 15,520 | 595,681. 362,612 12,986 21,070 | 587, 407, 14, 22, | 109 3 853 175 | 61,511 12,674 22,886 | 385, 774 12, 103 26, 3 09 |
| | | | | | 1967 | | | | | | | 988 | |
| Shipments | Apr | Hay | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | Her | Apr |
| Fresh (1,000 cwt) 4/ Potatoes (1,000 cwt) Sweetpotetoes (1,000 cwt) | 20,011 13,560 299 | 23.887 12,165 177 | 35,745 12,622 98 | 23,791 7,631 34 | 17,075 8,514 136 | 20,213 11,384 322 | 16,104 9,718 359 | 15,445 11,021 795 | 18,964 10,685 518 | 17,690 11,759 261 | 18,523 10,485 274 | 18,208 11,107 435 | 19,103 14,970 218 |

1/ 1983 data are not comparable with 1984 and 1985. 2/ Estimate reinstated for asparagus with the 1984 crop; all other years also include broccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onions, and tomatoes. 3/ Estimates reinstated for Cucumbers with the 1984 crop; all other years also include snap beans, sweet Corn, green peas, and tomatoes. 4/ Includes snap beans, broccoli, cabbage, carrota, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, onions, bell peppera, squash, tomatoes, Cantaloupes, honeydews, and watermalons. MA = not available.

Information Contacts: Shannon Hamm or Cathy Greene (202) 786-1884.

Table 25. - Other Commodities

| 12010 001 | | | | | | | | | | |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-------------------------|
| | | | Annual | | | | 190 | 87 | | 1988 |
| | 1983 | 1984 | 1985 | 1986 | 1987 | Jan-Mar | Apr-June | July-\$ept | Oct-Dec | Jan-Mar |
| Production 1/ Deliveries 1/ Stocks, ending 1/ | 5,682 8,812 2,570 | 5,890 8,454 3,005 | 5,969 8,035 3,126 | 6,257 7,786 3,227 | 7,278 8,167 965 | 2,024 1,908 3,497 | 766 2,001 2,476 | 866 2,146 1,497 | 3,622 2,112 965 | 2,090 1,951 3,610 |
| Coffee Composite green price | 131.51 | 142.95 | 137.46 | 185.18 | 109.14 | 115.38 | 105.91 | 99.16 | 116.12 | 121.98 P |
| N.Y. (cts/lb) Imports, green bean equiv. (mil (bs) 2/ | 2,259 | 2,411 | 2,550 | 2,596 | 2,638 | 563 | 790 | 645 | 640 | 585 P |
| | | Annual | | | | 1987 | | | | 1988 |
| Tobacco | 1985 | 1986 | 1987 P | Feb | \$ept | Oct | Nov | Qес | Jan | Feb |
| Prices at auctions 3/ Flue-cured (\$/lb) Burley (\$/lb) | 1.72 1.59 | 1.52 1.57 | NA NA | NQ 1.39 | 1.65 NQ | 1.66 NQ | 1.42 1.58 | NQ 1.58 | NQ 1.51 | NQ 1.51 |
| Domestic consumption Cigarettes (bil) Large cigars (mil) | 594.0 3,226 | 584.0 3,090 | 2,757 | 42.7 213.4 | 51.0 253.7 | 48.6 250.7 | 52.6 213.6 | 48.5 220.2 | 32.4 151.4 | 46.1 192.6 |

1/ 1,000 short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net imports of green and processed coffee. 3/ Crop year July-June for flue-cured, October-September for burley. 4/ Taxable removals. P = preliminary. NA = not available. NQ = no quote.

Information contacts: (sugar) Peter Buzzaneil (202) 786-1888; (coffee) Fred Gray (202) 786-1888; (tobacco) Verner Grise (202) 786-1890.

Table 26.-World, Supply & Utilization of Major Crops, Livestock, & Products

| | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 P | 1988/89 F |
|--|---|---|---|---|---|---|---|
| | | | | Million units | | | |
| Wheat Area (hectare) Production (metric ton) Exports (metric ton) 1/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/ | 237.3 477.3 98.7 460.1 130.0 | 228.8 489.3 102.0 474.1 145.2 | 231.0 511.8 107.0 492.8 164.2 | 229.3 499.8 85.0 495.7 168.2 | 228.0 529.7 90.7 521.7 176.1 | 220.0 504.8 103.8 534.2 146.7 | 521.5 100.6 535.7 133.0 |
| Coarse grains Area (hectare) Production (metric ton) Exports (metric ton) 1/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/ | 338.7 783.9 90.0 753.3 181.4 | 334.6 687.2 93.4 758.3 110.3 | 334.2 814.1 100.4 781.4 143.1 | 340.8 841.8 83.2 778.4 207.8 | 336.6 833.8 83.4 808.9 232.6 | 323.3 787.5 83.4 813.2 207.0 | 805 - 1 86 - 4 825 - 1 186 - 9 |
| Rice, milled Area (hectare) Production (metric ton) Exports (metric ton) 4/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/ | 140.6 286.5 11.9 286.5 43.3 | 144.3 308.6 12.6 305.1 46.7 | 144.4 319.0 11.5 311.0 54.8 | 144.9 319.1 12.8 320.2 53.8 | 145.1 317.9 12.7 322.2 49.5 | 142.1 304.1 10.9 313.5 40.2 | 325.0 325.7 39.5 |
| Total grains Area (hectare) Production (metric ton) Exports (metric ton) 1/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/ | 716.6 1,547.7 200.6 1,499.9 354.7 | 707.7 1,485.1 208.0 1,537.5 302.2 | 709.6 1,644.9 218.9 1,584.8 362.9 | 715.0 1,660.7 181.0 1,593.7 429.8 | 709.7 1,681.4 186.8 1,652.8 458.2 | 685.4 1,596.4 198.1 1,660.9 393.9 | 1,651.6 1,686.5 359.4 |
| Oilseeds Crush (metric ton) Production (metric ton) Exports (metric ton) Ending &tocks (metric ton) | 143.5 178.2 35.2 20.5 | 135.8 165.0 33.0 15.7 | 150.6 191.1 33.1 21.1 | 154.5 195.9 34.4 26.7 | 160.8 194.3 37.6 23.3 | 165.9 205.0 39.1 21.1 | 208.0 |
| Meals Production (metric ton) Exports (metric ton) | 98.1 31.6 | 92.5 29.7 | 101.8 32.3 | 104.6 34.3 | 109.8 36.4 | 113.3 36.3 | |
| Oils Production (metric ton) Exports (metric ton) | 43.4 14.0 | 42.1 13.7 | 46.1 15.5 | 49.3 16.3 | 50.3 16.9 | 52.1 17.6 | |
| Cotton Area (hectare) Production (bale) Exports (bale) Consumption (bale) Ending stocks (bale) | 31.4 68.1 19.5 68.3 25.2 | 31.0 65.6 19.2 68.3 23.9 | 33.9 88.2 20.2 70.0 42.3 | 31.9 79.6 20.4 75.7 47.1 | 30.0 70.4 26.1 82.2 34.6 | 32.6 79.8 23.8 82.2 32.5 | 83.5 23.0 82.5 33.2 |
| | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 P | 1988 F |
| Red meat Production (mil metric tons) Consumption (mil metric tons) Exports (mil metric tons) 1/ | 94.8 93.3 5.8 | 97.5 95.8 5.9 | 99.3 97.4 5.9 | 103.3 101.2 6.2 | 105.6 104.7 6.6 | 105.4 103.8 6.5 | 107.1 105.9 6.7 |
| Poultry Production (mil metric tons) Consumption (mil metric tons) Exports (mil metric tons) 1/ | 23.7 23.3 1.4 | 24.4 24.3 1.3 | 25.2 24.8 1.3 | 26.2 25.9 1.2 | 27.3 26.9 1.3 | 29.0 28.5 1.4 | 30.2 29.8 1.4 |
| Dairy Milk production (mil metric tons) | 396.9 | 413.0 | 413_4 | 417.8 | 423.9 | 419.0 | 421.5 |

^{1/} Excludes întra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years and do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1983 data correspond with 1982/83, etc. P = preliminary. F = forecast.

45

Information contacts: Frederic Surls (202) 786-1824; (red meat & poultry) Linda Bailey (202) 786-1286; (dairy) Sara Short (202) 786-1769.

Table 27.-Prices of Principal U.S. Agricultural Trade Products

| | Annual | | | | 1987 | | 1988 | | 88 | |
|---|-----------------|-----------------|---------------|--------|--------------|--------|-----------------|--------|-----------------------|-----------------------|
| Funcial compatibility | 1985 | 1986 | 1987 | Apr | Nov | Dec | Jan | Feb | Mar | Apr |
| Export commodities Wheat, f.o.b. vessel, Gulf ports (\$/bu) Corn, f.o.b. vessel, Gulf ports (\$/bu) | 3.73 2.89 | 3.19 | 3.11 1.95 | 3.13 | 3.17 2.10 | 3.43 | 3.53 | 3.60 | 3.42 | 3.47 |
| Grain sorghum, f.o.b. vessel. Gulf ports (\$/bu) | 2.64 | 2.16 | 1.88 | 1.86 | 2.01 | 1.98 | 2.06 | 2.13 | 2.30 | |
| Soybeans, f.o.b. vessel, Gulf ports (\$/bu) Soybean oil, Decatur (cts/lb) | 5.83 | 5.45 | 5.55 | 5.35 | 5.88 | 6.16 | 6.45 | 6.46 | 2.17 6.55 20.08 | 2.09 6.92 21.49 |
| Soybean meal, Decatur (\$/ton) Cotton, 8 market avg. spot (cts/lb) | 127.15 58.55 | 157.62 53.47 | 175.57 | 158.48 | 209.45 | 214.51 | 193.30 | 184.39 | 191.01 | 199.98 |
| Tobacco, avg. price at auction (cts/lb) Rice, f.o.b. mill, Houston (\$/cwt) | 172.05 18.49 | 153.93 | 146.50 | 141.34 | 152.38 | 152.61 | 150.08 21.00 | 149.27 | 149.27 | 141.22 |
| Inedible tallow, Chicago (cts/lb) Import commodities | 14.33 | 9.03 | 13.79 | 12.98 | 15.17 | 15.56 | 18.00 | 17.08 | 17.25 | 16.17 |
| Coffee, N.Y. spot (\$/lb) Rubber, N.Y. spot (cts/lb) | 1.42 41.91 | 2.01 42.87 | 1.09 50.65 | 1.02 | 1.19 | 1.19 | 1.19 | 1.28 | 1.27 | 1.23 |
| Cocoa beans, N.Y. (\$/[b) | .99 | .88 | .87 | .90 | .84 | .82 | .86 | .78 | .73 | .71 |

Information contact: Mary Teymourian (202) 786-1820.

Table 28. - Indexes of Nominal & Real Trade-Weighted Dollar Exchange Rates

| | | | | 1987 | | | | | | 1988 | | | |
|-----------------------------------|----------------------|----------------------|----------------------|------------------|---------------|---------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|--|
| | June | July | Aug | Sept | Oct | Nov | 0 ec | Jan | "Feb | Mar | Арг | Hay | |
| T-4-1 11 C | trade 1/ | | | | | Marc | h 1973=10 | 0 | | | | | |
| Total U.S. Nominal | 98 | 99 | 99 | 97 | 97 | 92 | 90 | 91* | ,91;* | 90* | 89* | 90* | |
| | -1 4- 4- | | | | | Apri | l 1971=10 | 0 | | | | | |
| Agricultura Nominal Real 3/ | 2/ 12,507 85 | 14,245 85 | 14,933 85 | 15,794 84 | 16,859 83 | 18,559 81 | 21,384 80* | 24,555 80* | 28,566 80* | 33,610 79* | 38,783 78* | 46,513 78* | |
| Real 3/ | 2/ 3 94 70 | 412 71 | 428 71 | 444 69 | 460 69 | 491 66 | 600 65* | 596 64* | 606 64* | 612 64* | 611 63* | 612 64* | |
| Wheat Nominal 2 Real 3/ | 2/ 73,477 106 | 83,997 106 | 88,101 104 | 93,144 103 | 99,717 102 | 109,724 99 | 126,159 97* | 145,327 99* | 169,807 104* | 200,627 104* | 232,272 106* | 279,552 107* | |
| Real 3/ | 2/ 11,436 | 13,0 <u>13</u> 75 | 13,642 74 | 14,427 73 | 15,392 72 | 16,943 69 | 19,547 69* | 22,412 69* | 26,038 69* | 30,593 68* | 35,262 67* | 42,239 67* | |
| Nominal a Real 3/ | 2/ 269 87 | 269 88 | 269 87 | 292 86 | 267 86 | 280 85 | 282* 83* | 282 83* | 281 82* | 279 82* | 281 80* | 280 80* | |

1/ federal Reserve Board index of trade-weighted exchange value of the U.S dollar against 10 other major industrial country currencies, plus Switzerland. These currencies dominate the financing of U.S total trade. 2/ Nominal values are percentage changes in currency units per dollar, weighted by proportion of agricultural exports from the United States. An increase indicates that the dollar has appreciated. 3/ The real index deflates the nominal series by consumer price changes of the countries involved, resulting in divergence between nominal and real indexes when high-inflation countries figure significantly. The nominal Federal Reserve index shows little divergence between nominal and real indexes because of similar inflation rates among the countries included. *Preliminary.

Information contact: Edward Wilson (202) 786-1790.

Table 29. - Trade Balance

| rable 29.— Fraue Ba | iiance | | | | | | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|---|--------------------------------|-------------------------------|-------------------------------|--------------------|-----------------------------------|
| | | | | | Fiscal yea | rs* | | | | Mar |
| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 F | 1988 |
| | | | | | \$ n | nillion | | | | |
| Exports Agricultural Nonagricultural Total 1/ | 40,481 169,846 210,327 | 43,780 185,423 229,203 | 39,097 176,308 215,405 | 34,769 159,373 194,142 | 38,027 170,014 208,041 | 31,201 179,236 210,437 | 26,309 176,628 202,937 | 27,859 202,331 230,190 | 33,500 NA NA | 3,327 25,644 28,971 |
| Agricultural Nonagricultural Total 2/ Trade balance | 17,276 223,590 240,866 | 17,218 237,469 254,687 | 15,485 233,349 248,834 | 16,373 230,527 246,900 | 18,916 297,736 316,652 | 19,740 313,722 333,462 | 20,875 342,855 363,730 | 20,643 367,381 388,024 | 21,000 NA NA | 1,948 34,875 36 ,823 |
| Agricultural Nonagricultural Total | 23,205 -53,744 -30,539 | 26,562 -52,046 -25,484 | 23,612 -57,041 -33,429 | 18,396 -71,154 -52,758 | 19,111 -127, 72 2 -108,611 | 11,461 -134,486 -123,025 | 5,434 -166,227 -160,793 | 7,216 -165,050 -157,834 | 12,500 NA NA | 1,379 -9,231 -7,852 |

*fiscal years begin October 1 and end September 30. Fiscal year 1987 began Oct. 1, 1986 and ended Sept. 30, 1987.

1/ Domestic exports including Department of Defense shipments (F.A.S. value). 2/ Imports for consumption (customs value).

F = forecast. NA = not available.

Information contact: Steve MacDonald (202) 786-1822.

Table 30. - U.S. Agricultural Exports & Imports

| | | Fisca | l years* | | Mar | | Fisca | l years* | | Mar |
|--|--|--|---|--|--|---|--|---|---|--|
| | 1985 | 1986 | 1987 | 1988 | _ | 1985 | 1986 | 1987 | 1988 F | 1988 |
| | | | Thousa | nd units | | | | \$ million | | |
| EXPORTS | 201 | -70 | 2.75 | | 27 | 25.5 | 3// | 331 | | 19 |
| Animals, live (no) 1/ Meats & preps., excl. poult. (mt) Dairy products (mt) Poultry meats (mt) Fats, oils, & greases (mt) Hides & skins incl. furskins Cattle hides, whole (no) 1/ Mink pelts (no) 1/ | 996 427 423 234 1,217 25,456 2,237 | 570 451 480 265 1,355 25,596 2,697 | 275 548 445 376 1,220 24,337 2,760 | 2/500 400 3/1,200 | 27 45 34 30 131 2,222 | 255 906 414 257 608 1,325 1,019 | 1,012 431 282 477 1,440 1,131 65 | 1,300 490 406 417 1,666 1,254 | 500 | 131 47 31 53 179 137 8 |
| Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) Feed grains, incl. prod. (mt) Feeds & fodders (mt) Other grain products (mt) | 93,903 28,523 718 1,972 55,362 6,533 795 | 74,358 25,501 1,094 2,382 36,236 8,392 1,015 | 90,213 28,204 1,305 2,454 47,605 10,113 750 | 39,000 1,200 2,300 52,300 6/11,000 | 10,730 4,059 16 189 5,148 1,253 89 | 13,285 4,264 164 677 6,884 1,004 293 | 9,472 3,260 203 648 3,817 1,286 332 | 9,059 2,877 207 551 3,752 1,455 284 | 4/11,800 5/4,400 800 4,600 | 1,162 402 3 72 468 190 33 |
| Fruits, nuts, and preps. (mt) Fruit juices incl. froz. (hl) 1/ Vegetables & preps. (mt) | 1,907 4,641 1,420 | 2,003 3,652 1,442 | 2,141 4,362 1,625 | | 199 536 151 | 1,687 200 946 | 1,766 148 997 | 2,049 185 1,174 | | 167 25 123 |
| Tobacco, unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or beet (mt) | 1,257 1,277 289 355 | 224 482 269 375 | 1,306 305 582 | 1,400 | 21 170 23 13 | 1,588 1,945 352 65 | 1,318 678 367 75 | 1,204 1,419 371 113 | 1,200 2,200 400 | 117 268 38 5 |
| Oilseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other | 23,803 17,886 16,621 4,606 1,311 12 443 | 27,583 20,684 20,139 5,614 1,284 7 568 | 29,653 21,833 21,322 6,786 1,035 8 | 21,400 21,200 6,200 | 3,213 2,100 2,036 901 212 1 | 6,195 4,324 3,876 853 1,018 105 1,069 | 6,271 4,394 4,174 1,132 746 105 1,126 | 6,293 4,408 4,191 1,347 538 111 1,271 | 7,700 4,900 1,400 | 824 508 480 206 110 11 127 |
| Total | 125,967 | 109,862 | 129,210 | 145,500 | 14,790 | 31,201 | 26,309 | 27,859 | 33,500 | 3,327 |
| IMPORTS | | | | | | | | | | |
| Animals, live (no) 1/ Meats & preps., excl. poult. (mt) Beef & veal (mt) Pork (mt) Dairy products (mt) Poultry and products 1/ Fats, oils, & greases (mt) Hides & skins, incl. furskins 1/ Wool, unmanufactured (mt) | 2,120 1,123 674 416 418 21 | 1,885 1,139 693 406 400 22 53 | 1,994 1,282 778 462 461 21 | 790 500 465 | 215 127 78 44 24 2 | 569 2,214 1,295 847 763 93 18 240 145 | 637 2,248 1,252 900 786 101 17 200 160 | 610 2,797 1,575 1,125 849 112 18 304 | 1,700 1,100 900 | 65 275 168 98 67 7 1 36 26 |
| Grains & feeds (mt) | 2,070 | 2,311 | 2,336 | 2,600 | 276 | 604 | 668 | 727 | 700 | 73 |
| Fruits, nuts, & preps., excl. juices (mt) Bananas & plantains (mt) Fruit juices (hl) 1/ | 4,483 3,022 35,112 | 4,637 3,042 31,539 | 4,835 3,106 33,888 | 4,725 3,100 30,000 | 518 272 1,899 | 1,891 752 995 | 1,976 740 698 | 2,178 817 728 | 800 | 234 76 60 |
| Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, came or beet (mt) | 2,140 191 31 92 2,338 | 2,199 208 41 89 1,905 | 2,446 224 38 133 1,492 | 2,550 175 120 900 | 320 18 2 26 71 | 1,347 556 17 91 318 912 | 1,560 606 14 111 353 654 | 1,509 634 7 156 369 497 | 1,600 | 173 50 1 19 38 27 |
| Oilseeds & products (mt) Oilseeds (mt) Protein meal (mt) Vegetable oils (mt) | 1,271 253 159 859 | 1,508 197 138 1,173 | 1,572 165 245 1,162 | 1,650 | 135 16 23 96 | 784 98 17 670 | 639 69 15 555 | 579 56 30 493 | 600 | 65 5 4 57 |
| Beverages excl. fruit juices (hl)1/ Coffee, tea, cocoa, spices (mt) Coffee, incl. products (mt) Cocoa beans & products (mt) | 15,494 1,868 1,128 539 | 15,488 1,940 1,223 507 | 15,549 1,915 1,207 503 | 1,200 550 | 1,182 160 90 50 | 1,622 4,983 3,244 1,285 | 1,848 6,099 4,400 1,189 | 1,923 4,867 3,232 1,088 | 2,700 | 156 393 239 106 |
| Rubber & allied gums (mt) Other | 799 | 801 | 824 | 840 | 88 | 68 0 900 | 615 885 | 714 868 | 900 | 96 86 |
| Total | | | | | ** | 19,740 | 20,875 | 20,643 | 21,000 | 1,948 |

^{*}Fiscal years begin October 1 and end September 30. Fiscal year 1987 began Oct. 1, 1986 and ended Sept 30, 1987. -- = not available. 1/ Not included in total volume. 2/ Forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Fiscal 1987 exports of categories used in the 1988 forecasts were 2/ 503 thousand mt. 3/ 1,204 thousand mt. 4/ 9,302 million. 5/ 3,086 million, i.e. includes flour. 6/ 10,003 thousand mt. 7/ Less than 500,000. F = forecast.

Information contact: Steve MacDonald (202) 786-1822.

| | | Fiscal | years* | | Mar | Cha | ange from | year* ea | rlier | Mar |
|--|--|---|---|--|--|--|--|--|---|---|
| Region & country | 1985 | 1986 | 1987 | 1988 F | 1988 | 1985 | 1986 | 1987 | 1988 F | 1988 |
| | | | 1 | million | | | | | Percer | nt |
| Western Europe European Community (EC-12) Belgium-Luxembourg France Germany, Fed. Rep. Italy Netherlands United Kingdom Portugal Spain, incl. Canary Isla Other Western Europe Switzerland | 470 396 900 677 1,926 628 502 | 6,848 6,432 361 431 1,001 2,042 628 308 723 415 128 | 7,203 6,771 423 1,266 733 1,950 662 268 654 432 145 | 7,600 7,100 | 848 794 0 0 131 0 235 61 47 97 55 | - 22 - 23 - 44 - 22 - 12 - 14 - 20 - 28 - 16 - 26 | -5 -43 -23 9 11 2 6 0 -39 -13 -19 | 557 175266 -555-130 -13043 | 25 | 25 23 -100 -100 -3 -100 27 31 54 50 57 -100 |
| Eastern Europe German Dem. Rep. Poland Yugoslavia Romania | 532 81 126 137 88 | 447 52 42 134 112 | 453 66 63 131 115 | 600 | 76 0 13 13 | -28 -39 -36 -24 -43 | -16 -36 -66 -2 27 | 1 27 50 -2 3 | | 15 -99 -37 -8 174 |
| USSR | 2,525 | 1,105 | 659 | 1,700 | 263 | 1 | -56 | -40 | 143 | 783 |
| Asia West Asia (Mideast) Turkey Iraq Israel Saudia Arabia South Asia Bangladesh India Pakiatan China Japan Southeast Asia Indonesia Philippines Other East Asia Taiwan Korea, Rep. Hong Kong | 11,933 1,452 1,29 371 300 381 599 228 228 239 5,663 842 285 3,138 1,340 396 | 10,494 1,243 111 335 255 335 517 90 285 83 5,139 724 269 2,788 1,127 400 | 11, 989 1, 663 117 5244 489 345 111 93 93 93 707 259 3, 485 1, 359 1, 3693 436 | 15,200 2,100 800 500 400 500 6,600 4,300 1,600 2,100 500 | 1,431 165 176 20 37 77 77 34 29 662 107 391 119 231 42 | -222224155311660568135545535 -125311660568135545535 | -12 -14 -13 -15 -15 -14 -30 -65 -9 -14 -16 -17 -17 | 14 34 55 46 31 13 -68 -18 -18 -18 -18 -18 -18 -18 -18 -18 -1 | 27 24 60 0 300 150 18 33 23 14 25 | 40 -10 -31 -31 -39 -223 -316 363 -41 -77 2028 -40 -40 11 |
| Africa North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa | 2,527 1,207 156 220 766 1,320 367 189 | 2,134 1,401 159 329 875 733 158 70 | 1,784 1,279 196 244 761 505 67 | 2,200 1,600 600 800 600 | 473 128 19 .59 .34 .45 | -12 -22 -54 -36 -13 -1 6 | -16 16 2 50 14 -44 -57 -63 | -16 -9 23 -26 -13 -31 -58 -30 | 22 23 200 20 | 24 26 47 71 -27 18 -33 371 |
| Latin America & Caribbean Brazit Caribbean Islands Central America Colombia Mexico Peru Venezuela | 4,570 557 771 361 238 1,566 106 721 | 3,598 445 752 334 137 1,114 108 493 | 3,765 418 829 377 115 1,215 1,40 459 | 4,000 300 1,300 600 | 352 77 30 16 134 12 55 | -13 27 -7 -9 8 -20 -53 | -21 -20 -2 -7 -42 -29 2 -32 | 5 -6 10 13 -16 9 30 -7 | 5 *25 8 20 | 12 -84 12 16 20 1 213 66 |
| Cenada | 1,727 | 1,466 | 1,776 | 2,000 | 170 | -11 | -15 | -21 | 11 | 16 |
| Oceania Total | 31,201 | 216 26,309 | 230 27,859 | 200 33,500 | 3,327 | -6 -18 | -16 | .5 | 50 0 | - 28 38 |
| Developed countries | 15,225 | 13,954 | 15,014 | 16,700 | 1,719 | -21 | -8 | 8 | 11 | 32 |
| Less developed countries | 12,680 | 10,719 | 11,499 | 14,000 | 1,241 | - 15 | -15 | .35 | 55 | 24 |
| Centrally planned countries | 3,296 | 1,636 | 1,347 | 2,800 | 367 | - 16 | -50 | -18 | 115 | 217 |

^{*}Fiscal years begin October 1 and end September 30. Fiscal year 1987 began Oct. 1, 1986 and ended Sept. 30, 1987. F = forecast.
Note: Adjusted for transshipments through Canada.

Information contact: Steve MacDonald (202) 786-1822.

Table 32. - Farm Income Statistics

| | | | | | | (| Calendar | Yesrs | | | | |
|----------------------|--|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------|---|
| | | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 F |
| | | | | | | | \$ bill | Lion | | | | |
| 1. | Farm receipts Crops (incl. net CCC Loans) Livestock Farm related 1/ | 114.3 53.2 59.2 1.9 | 133.8 62.3 69.2 2.2 | 142.0 71.7 68.0 2.3 | 144.1 72.5 69.2 2.5 | 147.1 72.3 70.3 4.5 | 141.1 67.1 69.4 4.5 | 146.7 69.4 72.9 4.4 | 149.2 74.4 69.8 5.0 | 140.2 63.6 71.6 5.1 | 141 "61 75 5 | 145 to 150 64 to 68 74 to 76 5 to 7 |
| ₹2. | Direct Government payments Cash payments Value of PIK commodities | 3.0 3.0 0.0 | 1.4 1.4 0.0 | 1.3 1.3 0.0 | 1.9 1.9 0.0 | 3.5 3.5 0.0 | 9.3 4.1 5.2 | 8.4 4.0 4.5 | 7.7 7.6 0.1 | 11.6 8.1 3.7 | 17 7 10 | 12 to 14 5 to 7 6 to 8 |
| 3. 4. 5. 6. | Total gross farm income (4+5+6) 2/ Gross cash income (1+2) Normoney income 3/ Value of inventory change | 128.4 117.3 9.3 1.9 | 150.7 135.1 10.6 5.0 | 149.3 143.3 12.3 -6.3 | 166.3 146.0 13.8 6.5 | 163.5 150.6 14.3 -1.4 | 153.1 150.4 13.5 -10.9 | 174.7 155.1 13.4 6.2 | 166.0 156.9 11.8 -2.7 | 159.5 152.0 10.8 -3.3 | 169 159 10 -1 | 168 to 173 158 to 163 8 to 10 0 to 1 |
| 7. 8. | Cash expenses 4/ Total expenses | 84.2 103.2 | 101.7 123.3 | 109.1 133.1 | 113.2 139.4 | 112.5 140.0 | 113.3 140.4 | 116.3 142.7 | 109.6 133.7 | 100.1 122.1 | 103 123 | 103 to 106 123 to 126 |
| 9. 10. | Net cash income (4-7) Net farm income (3-8) Deflated (1982%) | 33.1 25.2 34.9 | 33.4 27.4 34.9 | 34.2 16.1 18.8 | 32.8 26.9 28.6 | 38.1 23.5 23.5 | 37.1 12.7 12.2 | 38.8 32.0 29.7 | 47.3 32.3 29.1 | 52.0 37.5 32.9 | 56 46 39 | 53 to 59 42 to 48 36 to 40 |
| 11. | Off-farm income | 29.7 | 33.8 | 34.7 | 35.8 | 36.4 | 37.0 | 38.3 | 42.5 | 44.7 | 48 | 48 to 50 |
| 12. 13. | Loan changes 5/: Real estata 5/: Monreal estata | 7.6 8.3 | 13.0 10.9 | 9.3 5.9 | 9.4 | 4.0 3.4 | 2.3 0.9 | -1.1 -0.8 | ·6.0 -9.6 | -9.6 -10.7 | -8 -5 | -2 to -4 -2 to -4 |
| 14. 15. | Rental income plus monetary change Capital expenditures 5/ | 4.1 17.9 | 6.3 19.9 | 6.1 18.0 | 6.4 16.8 | 6.3 13.3 | 5.3 12.7 | 8.9 12.5 | 8.8 9.6 | 7.8 8.6 | ~8 8 | 8 to 10 9 to 11 |
| 16. | Hat cash flow (9+12+13+14-15) | 35.1 | 43.7 | 37.5 | 37.9 | 38.4 | 32.9 | 33.3 | 30.9 | 30.9 | 43 | 45 to 50 |

1/ Income from machine hire, custom work, sales of forest products, and other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced food and imputed gross rental value of farm dwellings. 4/ Excludes capital consumption, perquisites to hired labor, and farm household expenses. 5/ Excludes farm households. Totals may not add because of rounding. F = forecast.

Information contact: Richard Kodl (202) 786:1808.

Table 33.—Balarice Sheet of the U.S. Farming Sector

| | | | | | Calend | lar years | 1/ | | | | |
|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|------------------------|--|
| | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 F |
| | | | | | \$ | billion | | | | | |
| Assets Real estate Non-real estate Livestock & poultry | 601.9 175.3 51.3 | 706.2 201.6 61.4 | 782.9 213.2 60.6 | 784.7 212.0 53.5 | 748.8 212.2 53.0 | 739.6 205.4 49.7 | 639.6 208.9 49.6 | 558.9 191.2 46.3 | 510.1 181.5 47.6 | 523 191 58 | 534 to 544 188 to 194 57 to 61 |
| Machinery & motor vehicles Crops stored 2/ Financial assets Total farm assets | 75.5 25.3 23.1 777.2 | 85.8 29.2 25.3 907.8 | 93.1 33.0 26.5 996.1 | 101.4 29.1 28.0 996.7 | 102.0 27.7 29.5 961.0 | 100.8 23.7 31.3 945.0 | 96.9 29.6 32.8 848.5 | 87.7 23.1 34.2 750.1 | 80.4 18.4 35.0 691.6 | 78 19 37 714 | 78 to 82 14 to 18 36 to 38 725 to 735 |
| Liabilities Real estate 3/ Non-real estate 4/ Total farm liabilt. Total farm equity | 66.7 60.7 127.4 649.7 | 79.7 71.8 151.6 756.2 | 89.6 77.1 166.8 829.3 | 98.7 83.6 182.3 814.4 | 102.5 87.0 189.5 771.5 | 104.8 87.9 192.7 752.3 | 103.7 87.1 190.8 657.7 | 97.7 77.5 175.2 574.9 | 88.1 66.8 155.0 536.6 | 81 62 143 571 | 76 to 80 56 to 60 132 to 142 590 to 600 |
| | | | | | | Perce | nt | | | | |
| Selected ratios Debt-to-assets Debt-to-equity Debt-to-net cash incom | 16.4 19.6 e 385 | 16.7 20.0 454 | 16.7 20.1 488 | 18.3 22.4 556 | 19.7 24.6 497 | 20.4 25.6 519 | 22.5 29.0 492 | 23.4 30.5 371 | 22.4 28.9 298 | 20 25 245 | 17 to 20 20 to 24 230 to 247 |

1/ As of December 31. 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC.
3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacts: Ken Erickson or Jim Ryan (202) 786-1798.

Table 34. - Cash Receipts from Farm Marketings, by State

| | | Livestock | & Product | :s | | Cr | ops 1/ | | | To | tal 1/ | |
|--|---|---|---|---|---|---|--|--|---|---|--|---|
| Region State | 1986 | 1987 | Feb 1988 | Mer 1988 | 1986 | 1987 | Feb 1988 | Mar 1988 | 1986 | 1987 | Feb 1988 | Mar 1988 |
| | | | | | | \$ mil | lion 2/ | | | | | |
| North Atlantic Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York New Jersey Pennsylvania | 223 72 361 131 12 210 1,809 150 2,239 | 243 66 377 124 12 196 1,800 140 2,319 | 18 6 28 10 1 14 128 11 183 | 19 6 31 11 15 151 12 204 | 143 38 36 292 63 162 724 430 926 | 170 38 35 269 63 170 724 424 911 | 13 3 9 3 49 17 72 | 14 3 2 14 4 13 44 25 78 | 365 109 398 423 75 372 2,533 580 3,165 | 413 104 412 393 75 366 2,524 563 3,230 | 31 8 30 19 24 177 28 255 | 33 9 33 25 29 195 37 282 |
| North Central Ohio Indiana Illinois Michigan Wisconsin Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas | 1,566 1,852 2,143 1,236 4,164 3,395 4,982 1,930 1,525 4,260 3,447 | 1,614 1,856 2,261 1,285 4,220 3,645 5,270 2,173 760 1,909 4,848 3,914 | 120 137 153 90 308 274 446 208 92 171 370 376 | 131 143 173 106 363 304 442 206 73 159 364 358 | 2,043 2,258 4,757 1,429 892 2,689 4,124 1,586 1,623 2,669 1,978 | 1,807 2,017 3,913 1,220 8,020 2,510 1,516 1,516 1,516 1,516 1,516 1,975 1,806 | 111 156 294 106 43 120 164 121 106 65 111 | 139 142 334 93 35 128 207 120 90 56 100 135 | 3,610 4,110 6,880 2,664 5,057 6,074 9,106 3,516 2,299 2,463 6,928 5,425 | 3,422 3,873 6,174 2,505 5,022 5,818 3,690 2,308 2,724 6,823 5,720 | 231 293 447 196 351 395 610 329 199 237 481 485 | 270 286 507 200 398 432 649 325 163 215 464 493 |
| Southern Delaware Maryland Virginia West Virginia North Carolina South Carolina Georgia Florida Kentucky Tennessee Alabama Mississippi Arkansas Louisiana Oklahoma Texas | 402 814 1,127 1,56 2,174 4552 1,000 1,311 1,033 1,044 2,017 1,875 5,516 | 370 734 1,244 1,244 2,081 461 1,826 1,102 1,506 1,107 1,560 1,040 2,116 2,052 6,059 | 31 59 89 11 134 32 155 96 83 100 146 76 140 224 452 | 32 62 112 156 37 157 103 107 176 91 160 187 | 118 371 486 71 1,608 440 1,324 3,688 1,079 891 578 741 1,005 869 746 2,928 | 114 394 454 57 1,593 472 1,254 4,088 913 826 588 938 1,027 898 681 3,013 | 59 20 33 36 14 34 563 36 32 72 61 55 379 | 65222 411 154 418 330 439 447 219 | 520 1, 186 1, 613 227 3, 782 894 3, 206 4, 688 2, 389 1, 924 2, 009 1, 785 3, 022 1, 372 2, 622 8, 444 | 484 1,129 1,698 3675 933 3,080 2,419 1,9148 1,978 3,144 1,478 2,734 | 36 78 109 15 170 46 189 659 119 134 168 200 279 831 | 38 87 132 17 197 52 211 512 151 143 206 130 223 74 232 739 |
| Western Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada Washington Oregon California Alaska Hawaii | 720 884 455 2,218 708 699 437 160 981 649 4,446 10 84 | 760 926 926 2,321 817 774 462 167 979 655 4,741 11 88 | 56 102 49 201 34 68 34 15 78 45 349 | 66 100 42 205 49 88 37 56 415 1 8 | 493 1,042 111 890 302 796 134 72 1,812 1,135 9,602 19 | 587 1,121 114 873 336 1,019 136 76 1,829 1,204 10,325 18 494 | 58 51 53 15 49 11 6 109 61 563 | 55 56 50 18 132 9 7 108 62 697 1 | 1,213 1,925 566 3,109 1,010 1,495 570 232 2,793 1,784 14,049 29 575 | 1,347 2,047 643 3,194 1,153 1,793 599 243 2,808 1,859 15,066 29 582 | 114 153 54 253 49 117 .45 21 187 106 912 44 | 121 155 46 255 68 219 46 21 196 118 1,112 49 |
| United States | 71,573 | 76,211 | 6,047 | 6,505 | 63,612 | 61,350 | 4,109 | 4,097 | 135,185 | 137,561 | 10,155 | 10,601 |

^{1/} Sales of farm products include receipts from commodities placed under CCC loans minus value of redemptions during the period. 2/ Estimates as of the end of current month. Rounded data may not add.

Information contact: Roger Strickland (202) 786-1804.

Table 35. - Cash Receipts from Farming

| | | | A | nnuat | | | | 1987 | | | 1988 | |
|--|--|---|--|--|--|--|---|---|--|--|---|---|
| | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | Har | Nov | Dec | Jan | Feb | Har |
| | | | | | | 5 milli | lon | | | | | |
| farm marketings & CCC Loans * | 142,594 | 136,580 | 142,314 | 144,193 | 135,185 | 137,561 | 9,583 | 15,457 | 12,302 | 13,042 | 10,155 | 10,601 |
| Livestock & products Meat animals Dairy products Pouttry & eggs Other | 70,257 40,917 18,234 9,520 1,586 | 69,437 38,893 18,763 9,979 1,801 | 72,936 40,832 17,944 12,192 1,968 | 69,780 38,589 18,063 11,191 1,937 | 71,573 39,137 17,824 12,678 1,934 | 76,211 44,716 17,829 11,485 2,182 | 6,151 3,585 1,532 893 142 | 6,668 3,950 1,445 974 299 | 5,863 3,403 1,518 806 137 | 6,608 4,179 1,404 865 159 | 6,047 3,889 1,282 753 123 | 6,505 4,001 1,495 863 145 |
| Crops Food grains Feed crops Cotton (lint and seed) Tobacco Dil-bearing crops Vegetables & melons fruits & tree nuts Other | 72,338 11,412 17,409 4,457 3,342 13,812 6,846 6,993 | 67, 143 9, 713 15, 535 3, 705 2, 768 13, 546 8, 462 6, 064 7, 352 | 69,378 9,576 15,831 3,270 2,841 13,894 9,142 6,768 8,057 | 74,413 9,080 22,479 3,730 2,722 12,595 8,558 6,836 8,413 | 63,612 5,948 17,849 2,920 1,918 10,507 8,705 6,900 8,865 | 61,350 5,409 13,021 4,006 1,827 10,798 9,230 7,547 9,513 | 3,432 221 507 48 10 538 885 390 832 | 8,789 350 2,671 958 159 1,889 433 984 1,345 | 6,439 1,323 922 384 1,122 413 777 1,072 | 6,434 421 1,614 718 31 1,487 1,017 523 624 | 4,109 421 846 444 3 731 520 525 619 | 4,097 347 812 240 748 804 304 |
| Government payments Total | 3,492 146,086 | 9,295 145,875 | 8,430 150,744 | 7,704 151,897 | 11,813 146,998 | 16,747 154,308 | 2,106 11,689 | 300 15,757 | 13,719 | 71 13,113 | 105 10,260 | 1,160 11,761 |

^{*} Receipts from Loans represent value of commodities placed under CCC loans minus value of redemptions during the month. Information contact: Roger Strickland (202) 786-1804.

Table 36. - Farm Production Expenses

| | | | | | Calend | ar years | | | | | |
|--|--|--|--|--|--|--|--|--|--|-------------------------|---|
| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | F 1 | 988 F |
| | | | | | \$ mi | llion | | | | | |
| Feed Livestock Seed Farm-origin inputs | 19,314 13,012 2,904 35,230 | 20,971 10,670 3,220 34,861 | 20,855 8,999 3,428 33,282 | 18,592 9,684 3,172 31,448 | 21,725 8,814 2,993 33,532 | 19,852 9,498 3,448 32,798 | 18,015 8,996 3,350 30,361 | 16,179 9,609 2,984 28,772 | 16,100 11,900 3,000 31,000 | 10,000 | to 18,500 to 12,000 to 4,000 to 34,000 |
| Fertilizer Fuels & oils Electricity Pesticides Manufactured inputs | 7,369 5,635 1,447 3,436 17,887 | 9,491 7,879 1,526 3,539 22,435 | 9,409 8,570 1,747 4,201 23,927 | 8,018 7,888 2,041 4,282 22,229 | 7,067 7,503 2,146 4,154 20,870 | 7,429 7,143 2,166 4,767 21,505 | 7,259 6,584 2,150 4,817 20,810 | 5,787 4,790 2,121 4,331 17,029 | 5,400 4,400 2,400 4,600 16,900 | 4,200 2,000 3,600 | to 6,500 to 5,200 to 3,000 to 4,600 to 19,000 |
| Short-term interest Real estate interest 1/ Total interest charges | 6,868 6,190 13,058 | 8,717 7,544 16,261 | 10,722 9,142 19,864 | 11,349 10,481 21,830 | 10,615 10,815 21,430 | 10,396 10,733 21,129 | 8,821 9,878 18,699 | 7,795 9,131 16,926 | 7,100 8,100 15,200 | 7,500 | to 6,500 to 8,500 to 15,000 |
| Repair & operation 1/ 2/ Hired labor Machine hire & custom work | 6,754 8,981 2,063 | 7,075 9,293 1,823 | 7,021 8,931 1,984 | 6,428 10,075 2,025 | 6,529 9,726 1,896 | 6,416 9,729 2,170 | 6,370 9,792 2,184 | 6,426 9,875 1,791 | 6,500 10,800 2,000 | 10,000 | to 7,500 to 12,000 to 2,200 |
| Marketing, storage, & transportation Misc. operating expenses 1/Other operating expenses | 3,162 6,771 27,732 | 3,070 6,881 28,142 | 3,523 6,909 28,368 | 4,301 7,262 30,889 | 3,904 8,439 31,143 | 4,012 8,450 31,433 | 4,127 7,942 30,579 | 3,652 7,344 29,519 | 3,800 8,200 31,300 | 7,000 | to 4,500 to 8,000 to 34,000 |
| Capital consumption 1/ Taxes 1/ | 19,345 3,871 | 21,474 3,891 | 23,573 4,246 | 24,287 4,036 | 23,873 4,469 | 23,105 4,059 | 20,891 4,231 | 18,997 4,125 | 17,300 4,300 | 17,000 3,700 | to 18,000 to 4,700 |
| Net rent to non-operator landlord Other overhead expenses | 6,182 29,398 | 6,075 31,440 | 6,184 34,003 | 6,059 34,381 | 5,060 33,402 | 8,640 35,805 | 8,124 33,247 | 6,684 29,806 | 6,900 28,500 | 7,300 28,000 | to 8,300 to 31,000 |
| Total production expenses | 123,305 | 133,139 | 139,444 | 139,978 | 140,375 | 142,669 | 133,696 | 122,052 | 123,000 | 123,000 | to 126,00 |

^{1/} Includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses includes other livestock purchases and dairy assessments. Totals may not add because of rounding. F = forecast.

Information contacts: Richard Kodl (202) 786-1808; Chris McGath (202) 786-1804.

Table 37.—CCC Net Outlays by Commodity & Function

| | | | | | Fí | scal yea | ırs | | | | |
|--|---------------------------|----------------------------|-----------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|-------------------------------|
| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 1 | 1989 E |
| | | | | | | \$ millio | n | | | | |
| COMMODITY/PROGRAM Feed grains Wheat Rice Upland cotton | 1,144 308 49 141 | 1,286 879 -76 64 | -533 1,543 24 336 | 5,397 2,238 164 1,190 | 6,815 3,419 664 1,363 | -758 2,536 333 244 | 5,211 4,691 990 1,553 | 12,211 3,440 947 2,142 | 13,967 2,836 906 1,786 | 12,568 1,083 189 42 | 11,050 1,524 320 229 |
| Tobacco Dairy Soybeans Peanuts | 157 24 4 27 | -88 1,011 116 28 | -51 1,894 87 28 | 103 2,182 169 12 | 2,528 2,528 288 -6 | 346 1,502 -585 1 | 2,085 711 12 | 253 2,337 1,597 32 | -346 1,166 -476 8 | -433 1,227 -1,069 3 | -323 936 -305 1 |
| Sugar Honey Wool | 313 -2 39 | -405 9 35 | -121 8 42 | -5 27 54 | 49 48 94 | 10 90 132 | 184 81 109 | 214 89 123 | -65 73 152 | - 14 70 125 | 56 127 |
| Operating expense interest expenditure Export programs Other | 97 238 417 656 | 157 518 -669 -113 | 159 220 -940 1,340 | 294 -13 65 -225 | 328 3,525 398 -1,542 | 362 1,064 743 1,295 | 346 1,435 134 -314 | 457 1,411 102 486 | 535 1,219 276 371 | 568 836 449 2,013 | 583 1,196 512 1,234 |
| Total | 3,612 | 2,752 | 4,036 | 11,652 | 18,851 | 7,315 | 17,683 | 25,841 | 22,408 | 17,657 | 17,140 |
| Function Price support loans Oirect payments Purchases | 1,811 10 | -66 418 1;681 | 174 1,030 1,602 | 7,015 1,491 2,031 | 8,438 3,600 2,540 | -27 2,117 1,470 | 6,272 7,827 1,331 | 13,628 6,746 1,670 | 12,199 5,862 -479 | 8,222 3,983 -633 | 5,514 6,023 399 |
| Producer storage payments Processing, storage, & transportation | 247 128 | 254 259 | 32 323 | 679 355 | 964 665 | 268 639 | 329 657 | 485 1,013 | 832 1,659 | 565 1,494 | 522 1,058 |
| Operating expense Interest expenditure Export programs Other | 97 238 417 662 | 157 518 -669 200 | 159 220 -940 1,436 | 294 -13 -65 -265 | 328 3,525 398 -1,607 | 362 1,064 743 679 | 346 1,435 134 -648 | 457 1,411 102 329 | 535 1,219 276 305 | 568 836 449 2,173 | 583 1,196 512 1,333 |
| Total | 3,612 | 2,752 | 4,036 | 11,652 | 18,851 | 7,315 | 17,683 | 25,841 | 22,408 | 17,657 | 17,140 |

E = estimated in the fiscal 1989 President's Budget. Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 447-5148

Transportation

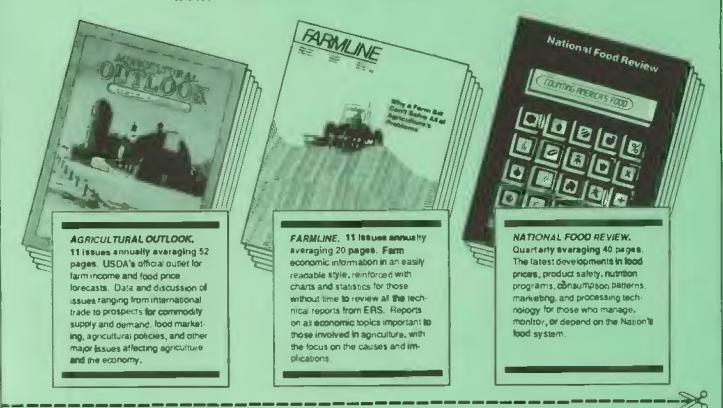
| Table 38Rail Rates; Grain & F | ruit/Vege | table Sh | nipments | | | | | | | |
|--|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|-------------------------------------|--|--|----------------|--|
| | | Annual | | | 1987 | | | | 1988 | |
| | 1985 | 1986 | 1987 P | Apç | Nov | 0ec | Jan | Feb | Mar | Apr |
| Rail freight rate index 1/ (Dec 1984=100) All products Farm products Grain Food products | 100.0 99.0 98.3 100.1 | 100.7 99.6 98.9 99.0 | 100.1 99.3 98.7 98.6 | 100.1 99.2 98.6 98.5 | 100.2 99.7 99.1 98.7 | 100-1 99.3 98-5 98.7 | 103.3 P 101.9 P 101.2 P 102.4 P | 103.3 102.0 101.2 102.4 | P 102.3 P | 105.2 P 105.0 P 102.9 P 103.8 P |
| Grain shipments Rail carloadings (thou cars) 2/ Fresh fruit & vegetable shipments Piggy back (thou cwt) 3/ 4/ Rail (thou cwt) 3/ 4/ Truck (thou cwt) 3/ 4/ | 22.9 602 532 8,298 | 24.4 629 563 9,031 | 29.0 575 654 9,187 | 25.0 673 616 9,838 | 30.8 495 P 716 P 8,605 P | P 29.0 478 P 742 P 8,383 P | 428 P 785 P | 33.2 I 473 P 613 P 3,766 P | 484 P 635 P | 33.0 P 539 P 533 P 536 P |
| Cost of operating trucks hauling produce 5/ Owner operator (cts/mile) Fleet operation (cts/mile) | 116.1 116.7 | 113.1 113.6 | 116.3 116.5 | 115.1 115.0 | 117.8 118.1 | 118.5 118.3 | 118.1 118.0 | 118.3 118.1 | 118.3 117.7 | 118.9 118.4 |

1/ Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Railroads. 3/ Weekly average; from Agricultural Marketing Service, USDA. 4/ Preliminary data for 1987 and 1988. 5/ Office of Transportation, USDA. P = preliminary.

Information contact: T.Q. Hutchinson (202) 786-1840.

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